

DAHLGREN DIVISION NAVAL SURFACE WARFARE CENTER

Dahlgren, Virginia 22448-5100



NSWCDD/TR-04/43

AN INVERSE OF THE GENERALIZED CIRCULAR ERROR FUNCTION

BY ARMIDO DIDONATO

FORCE WARFARE SYSTEMS DEPARTMENT

JUNE 2004

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REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
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1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE June 2004	3. REPORT TYPE AND DATES COVERED Final	
4. TITLE AND SUBTITLE An Inverse of the Generalized Circular Error Function			5. FUNDING NUMBERS	
6. AUTHOR(s) Armido DiDonato				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Commander Naval Surface Warfare Center Dahlgren Division (Code T10) 17320 Dahlgren Road Dahlgren, VA 22448-5100			8. PERFORMING ORGANIZATION REPORT NUMBER NSWCDD/TR-04/43	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)			10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution is unlimited.			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) <p>This report describes an algorithm, INGCE, to evaluate an inverse of the generalized circular error function, GCE, also known as the elliptical normal function. Given a two-dimensional normal distribution function with mean zero and standard deviations u, v with a circular target T centered at the mean; R, the radius of T, is determined for a specified probability, P, of a shot falling in T.</p> <p>A Fortran 77 subroutine, INVGCE, is available that is based on INGCE, which produces K ($R=Ku$) to eight significant digits for $10^{-8} \leq P \leq 1 - 10^{-8}$ and $0 \leq c \equiv v/u \leq 1$.</p> <p>A table of K versus P and c is included.</p>				
14. SUBJECT TERMS algorithm, INGCE, inverse, circular error function, GCE, elliptical normal function, INVGCE			15. NUMBER OF PAGES 48	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORTS UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED	19. SECURITY CLASSIFICATION OF ABSTRACT UNCLASSIFIED	20. LIMITATION OF ABSTRACT UL	

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FOREWORD

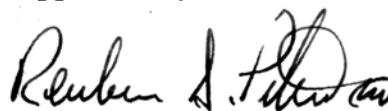
The algorithm described in this report is the basis for the Fortran software of an important statistical function that is not contained in the NSWC Library of Mathematics Subroutines. The software can be used in targeting studies when statistical confidence regions are required.

Dr. John Crigler (B10) supplied the external distribution list.

The editorial assistance of David Bozicevich (B60) is appreciated.

This document was reviewed by Robert G. Hill, Head, Warfare Systems Division.

Approved by:

A handwritten signature in black ink, appearing to read 'Reuben S. Pitts', with a stylized flourish at the end.

REUBEN S. PITTS, Head
Force Warfare Systems Department

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I. INTRODUCTION

The generalized circular error function, GCE, also known as the elliptical normal function, defines a probability function $P(R, u, v)$. GCE gives the probability of a shot falling in a circle of the xy plane, of radius R and centered at the mean, under a bivariate uncorrelated normal distribution with mean zero and standard deviations u, v . This probability is given by

$$P(R, u, v) = \frac{1}{2\pi uv} \int_{-R}^R \int_{-\sqrt{R^2-x^2}}^{\sqrt{R^2-x^2}} \exp\left\{-\frac{1}{2}\left[\left(\frac{x}{u}\right)^2 + \left(\frac{y}{v}\right)^2\right]\right\} dy dx. \quad (1)$$

Transforming to polar coordinates, with $x = r \cos \theta$, $y = r \sin \theta$ yields

$$P(R, u, v) = \frac{1}{2\pi uv} \int_0^R \int_0^{2\pi} \exp\left\{-\frac{1}{2}\left[\left(\frac{r \cos \theta}{u}\right)^2 + \left(\frac{r \sin \theta}{v}\right)^2\right]\right\} r d\theta dr. \quad (2)$$

Using elementary trigonometric identities

$$P(R/u, c) = \frac{1}{\pi c} \int_0^{R/u} \int_0^\pi \exp\left[-\frac{1}{2}r^2(B - A \cos \theta)\right] r d\theta dr, \quad (3)$$

with

$$A \equiv \frac{1 - c^2}{2c^2}, \quad B \equiv \frac{1 + c^2}{2c^2}, \quad (4)$$

where, without loss of generality, $v \leq u$,

$$c \equiv v/u, \quad 0 \leq c \leq 1. \quad (5)$$

Using the fact that

$$I_0(x) \equiv \frac{1}{\pi} \int_0^\pi \exp(x \cos \theta) d\theta, \quad (6)$$

where $I_0(x)$ denotes the modified Bessel function of the first kind and zero order [1, p. 375], one obtains from (3) and (6)

$$P(R/u, c) = \frac{1}{c} \int_0^{R/u} \exp\left(-\frac{B r^2}{2}\right) I_0\left(\frac{A r^2}{2}\right) r dr. \quad (7)$$

Now letting

$$K \equiv R/u, \quad w = r^2/2, \quad (8)$$

(7) reduces to

$$P(K, c) = \frac{1}{c} \int_0^{K^2/2} \exp(-B w) I_0(A w) dw. \quad (9)$$

Introducing the MacLaurin series and the asymptotic expansion for I_0 , [1, p.375, p.377] recurrence relations are developed which are used to generate an algorithm that efficiently

and accurately evaluates P (see [2], [8]). The objective of this report is to describe an algorithm upon which a Fortran computer program, INVGCE, is based to determine K , given P, u, v . This program can be used as a tool in evaluating the accuracy of a weapon.

For example, consider a target located at the origin of the xy -plane and a set of miss distances normally distributed in the x and y directions (see [6], [7]) which are independent, with mean zero and standard deviations u, v respectively. Then, approximating the standard deviations from the data, say \hat{u} and \hat{v} , one is interested in knowing the radius, R , of the circle, C , centered at the origin, which contains 100 $P\%$ of the distribution, i.e., for which a shot has a probability P of falling within C .

In Appendix A, the five-six significant digit inverse $P(K, c)$ table in [2] is extended to six-seven significant digits.

II. ANALYSIS TO DETERMINE K ($R = K u$)

INGVCE first treats two special cases. When $c = 0$, then $P = \text{erf}(K/\sqrt{2})$, where

$$\text{erf}(x) \equiv \frac{2}{\sqrt{\pi}} \int_0^x \exp(-t^2) dt, \quad (10)$$

and if $c = 1$, then $P = 1 - \exp(-K^2/2)$.

For the first case, the inverse of the erf function is needed to determine K . The routine DERFI($\text{erf}(x), 1 - \text{erf}(x)$) from [5, p. 51] is used for this purpose. In the second case, $K = \sqrt{-2 \log(1 - P)}$. The remainder of this section assumes $c \in (0, 1)$.

In order to find K in the general case, where c and $P = \hat{P}$ are given, the well-known Newton-Raphson root-finding procedure (N-R) is used [4, p. 129]. Denoting the n th approximation or iterate for K by K_n , with c constant,

$$K_{n+1} = K_n - \frac{\frac{1}{c} \int_0^{K_n^2/2} \exp(-Bw) I_0(Aw) dw - \hat{P}}{(\partial P / \partial K)_{K=K_n}}, \quad n = 1, 2, \dots, \quad (11)$$

where if $AK^2 < 14$ (see [2]), then

$$\frac{\partial P}{\partial K} = \frac{K}{c} \exp(-BK^2/2) I_0(AK^2/2), \quad (12)$$

or else

$$\frac{\partial P}{\partial K} = \frac{K}{c} \exp(-K^2/2) [\exp(-AK^2/2) I_0(AK^2/2)]. \quad (13)$$

There are two basic problems associated with using N-R:

1. A condition for stopping the iteration procedure is needed, i.e., deciding when an acceptable approximation for K has been reached.
2. A value for K_1 , which initiates the N-R, is needed so that rapid convergence is assured.

The first problem was resolved by requiring that the iteration be stopped when

$$|K_{n+1} - K_n| \leq K_{n+1} \text{ eps}, \quad (14)$$

where eps is a prespecified small positive number. It was found unnecessary to utilize the stopping rule:

$$|P(K_{n+1}, c) - \hat{P}| \leq \hat{P} \text{ eps}. \quad (15)$$

The second problem required extensive testing and some analysis to resolve satisfactorily. The solution adopted distinguishes this work from that carried out in [2] and [8]. The reasoning will be heuristic.

Values for K_1 were considered using the results of [3], but those did not do as well, in general, as the values given below.

From (9), the first term of the Taylor series for P is given by

$$T_o = \frac{2c}{1+c^2} [1 - \exp(BK^2/2)]. \quad (16)$$

So, replacing T_o by P , $\exp(-BK^2/2) \sim T \equiv 1 - \frac{1+c^2}{2c} P$, $K_1 = \sqrt{-2 \text{Log}(T)/B}$. It was found, by extensive testing, that the expression for K_1 gave excellent starting values, provided $T \geq .025$. Thus

$$\text{If } T \geq .025, \text{ then } K_1 = \sqrt{(-2 \text{Log}(T)/B)}. \quad (\text{IERR} = 1). \quad (17)$$

If the inequality in (17) does not hold, the following set of conditions is used:

If $P < 10^{-5}$ then

$$K_1 = \sqrt{2} \text{ DERFI}(200 P, 1 - 200 P). \quad (\text{IERR} = 2)$$

Else

if $P < 10^{-4}$ then

$$K_1 = \sqrt{2} \text{ DERFI}(100 P, 1 - 100 P). \quad (\text{IERR} = 3)$$

Else

if $P < 10^{-3}$ then

$$K_1 = \sqrt{2} \text{ DERFI}(60 P, 1 - 60 P). \quad (\text{IERR} = 4)$$

Else

if $P < 10^{-1}$ then

$$K_1 = \sqrt{2} \text{ DERFI}(5 P, 1 - 5 P). \quad (\text{IERR} = 5)$$

Else

$$K_1 = \sqrt{2} \text{ DERFI}(P, 1 - P). \quad (\text{IERR} = 6)$$

IERR is an output parameter of INVGCE that identifies which K_1 was chosen. (See the next section.) The motivation for choosing K_1 in terms of the inverse of the erf function

arises from the fact that, for $c = 0$, the exact value for K is given in terms of this function, as noted by (10).

III. DESCRIPTION OF THE FORTRAN 77 SUBROUTINE INVGCE

In this section, the subroutine INVGCE is discussed further. Its call line is:

Call INVGCE(P, c, K, ij, IERR)

The routine, with 23 supporting routines, is written in Fortran 77 in double-precision. Thus, on an IBM PC approximately 15 decimal digits are available. The inputs are P and c . The outputs are K , ij , $IERR$. $IERR$ plays a dual role as an error parameter and as an indicator of which initial approximation is used for K_1 .

If $IERR$ is negative, then an unacceptable input has been given. $K = -10^{10}$ is returned. In particular:

If $IERR = -1$ then $P \geq 1$ or $P < 0$.

If $IERR = -2$ then $c < 0$.

If $IERR = -3$ then $c > 1$.

The integer ij represents the number of calls to the N-R procedure. The output is $K = R/u$.

INVGCE is designed to give a minimum of 8 significant digits for K when ϵ is set to $5 \cdot 10^{-9}$, and P is constrained to

$$10^{-8} \leq P \leq 1 - 10^{-8}.$$

The routine is also efficient, showing, with extensive testing, a maximum for ij of 7 and an average of $ij = 3$. This indicates that the choices for K_1 are quite good.

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APPENDIX A

TABULATION OF K AS A FUNCTION OF P AND c.

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TABLE A-1. TABULATION OF K AS A FUNCTION OF P and c

Fixed value of P on a row. Fixed value of c on a column.

Example 1:	P = .31,	c = .42,	K = 0.5800701	See Page A-13
Example 2:	P = .9990,	c = .65,	K = 3.3759637	See Page A-26

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$P c$.00	.01	.02	.03	.04	.05	.06	$0 \leq c = v/u \leq 1$,	$R = K * u$.08	.09	.10	c/P
.01	0.0125335	0.0162890	0.0213768	0.0255837	0.0292129	0.0324462	0.0353888	0.0381066	0.0406443	0.0430333	0.0452970	0.0475941	.01
.02	0.0250689	0.0272013	0.0325804	0.0379290	0.0427580	0.0471429	0.0511745	0.0549219	0.0584359	0.0617543	0.0649061	0.0679794	.02
.03	0.0376083	0.0389710	0.0433031	0.0488764	0.0543135	0.0594003	0.0641479	0.0685999	0.0727985	0.0767794	0.0805715	0.0843310	.03
.04	0.0501536	0.0511622	0.0544175	0.0595705	0.0651794	0.0706602	0.0758840	0.0808409	0.0855510	0.0900395	0.0943310	0.0986971	.04
.05	0.0627068	0.0635098	0.0660314	0.0704463	0.0758734	0.0814918	0.0869990	0.0923067	0.0973984	0.1022817	0.1069715	0.1118891	.05
.06	0.0752699	0.0759373	0.0779936	0.0816639	0.0866586	0.0921941	0.0978159	0.1033414	0.1087058	0.1138910	0.1188981	0.1240000	.06
.07	0.0878448	0.0884160	0.0901590	0.0932288	0.0976693	0.1029443	0.1085303	0.1141540	0.1196936	0.1250992	0.1303532	0.1358000	.07
.08	0.1004337	0.1009329	0.1024487	0.1050734	0.1089555	0.1138484	0.1192701	0.1248830	0.1305085	0.1360599	0.1414973	0.1470000	.08
.09	0.1130385	0.1134818	0.1148239	0.1171201	0.1205114	0.1249629	0.1301195	0.1356251	0.1412540	0.1468819	0.1524437	0.1580000	.09
.10	0.1256613	0.1260599	0.1272643	0.1293101	0.1323005	0.1363078	0.1411314	0.1464486	0.1520061	0.1576457	0.1632765	0.1690000	.10
.11	0.1386662	0.1386662	0.1397588	0.1416061	0.1447800	0.1478767	0.1523340	0.1574004	0.1628208	0.1684126	0.1740604	0.1798000	.11
.12	0.1509692	0.1513008	0.1523005	0.1539859	0.1564036	0.1596476	0.1637365	0.1685103	0.1737396	0.1792299	0.1848459	0.1900000	.12
.13	0.1636585	0.1639643	0.1648856	0.1664358	0.1686469	0.1715926	0.1753337	0.1797945	0.1847912	0.1901336	0.1956734	0.2010000	.13
.14	0.1763742	0.1766579	0.1775122	0.1789474	0.1809808	0.1836842	0.1871116	0.1912575	0.1959942	0.2011507	0.2065746	0.2120000	.14
.15	0.1891184	0.1893830	0.1901793	0.1915155	0.1934091	0.1958991	0.1990516	0.2028957	0.2073587	0.2123005	0.2175744	0.2230000	.15
.16	0.2018935	0.2021413	0.2028868	0.2041368	0.2059048	0.2082193	0.2111348	0.2146995	0.2188874	0.2235954	0.2286916	0.2340000	.16
.17	0.2147016	0.2149346	0.2156354	0.2168095	0.2184678	0.2206317	0.2233436	0.2266563	0.2305776	0.2350422	0.2399399	0.2450000	.17
.18	0.2275450	0.2277648	0.2284258	0.2295327	0.2310943	0.2331271	0.2356635	0.2387527	0.2424230	0.2466429	0.2513282	0.2560000	.18
.19	0.2404260	0.2406341	0.2412595	0.2423063	0.2437818	0.2456992	0.2480831	0.2509756	0.2544147	0.2583959	0.2628616	0.2675000	.19
.20	0.2533471	0.2535445	0.2541380	0.2551307	0.2565290	0.2583437	0.2605938	0.2633135	0.2665430	0.2702967	0.2745418	0.2788000	.20
.21	0.2663106	0.2664984	0.2670628	0.2680068	0.2693355	0.2710580	0.2731894	0.2757569	0.2787983	0.2823391	0.2863678	0.2900000	.21
.22	0.2793190	0.2794981	0.2800361	0.2809357	0.2822013	0.2838406	0.2858658	0.2882983	0.2911715	0.2945161	0.2983368	0.3020000	.22
.23	0.2923749	0.2925460	0.2930599	0.2939189	0.2951271	0.2966907	0.2986200	0.3009322	0.3036551	0.3068206	0.3104444	0.3140000	.23
.24	0.3053408	0.3056445	0.3061363	0.3069582	0.3081137	0.3096083	0.3114506	0.3136544	0.3162427	0.3192457	0.3226856	0.3260000	.24
.25	0.3186394	0.3187963	0.3192678	0.3200555	0.3211626	0.3225938	0.3243566	0.3264622	0.3289295	0.3317853	0.3350551	0.3380000	.25
.26	0.3318533	0.3320041	0.3324567	0.3332128	0.3342752	0.3356482	0.3373379	0.3393540	0.3417118	0.3444345	0.3475479	0.3500000	.26
.27	0.3451255	0.3452704	0.3457056	0.3464325	0.3474536	0.3487726	0.3503950	0.3523290	0.3545872	0.3571891	0.3601594	0.3625000	.27
.28	0.3584588	0.3585983	0.3590173	0.3597170	0.3606996	0.3619686	0.3635288	0.3653387	0.3675540	0.3700461	0.3728855	0.3750000	.28
.29	0.3718561	0.3719906	0.3723944	0.3730688	0.3740157	0.3752381	0.3767404	0.3785286	0.3806117	0.3830033	0.3857231	0.3880000	.29
.30	0.3853205	0.3854503	0.3858400	0.3864907	0.3874042	0.3885832	0.3900316	0.3917547	0.3937601	0.3960595	0.3986696	0.4000000	.30
.31	0.3988551	0.3989805	0.3993569	0.3999854	0.4008677	0.4020061	0.4034041	0.4050665	0.4070000	0.4092142	0.4117235	0.4140000	.31
.32	0.4124631	0.4125844	0.4129484	0.4135561	0.4144090	0.4155093	0.4168602	0.4184659	0.4203322	0.4224674	0.4248839	0.4270000	.32
.33	0.4261480	0.4262654	0.4266177	0.4272058	0.4280311	0.4290956	0.4304022	0.4319547	0.4337582	0.4358200	0.4381505	0.4400000	.33
.34	0.4399132	0.4400268	0.4403681	0.4409378	0.4417370	0.4427679	0.4440328	0.4455353	0.4472800	0.4492731	0.4515237	0.4530000	.34
.35	0.4537622	0.4538724	0.4542033	0.4547554	0.4555302	0.4565292	0.4577548	0.4592102	0.4608995	0.4628284	0.4650044	0.4670000	.35
.36	0.4676988	0.4678057	0.4681267	0.4686624	0.4694139	0.4703828	0.4715713	0.4729823	0.4746195	0.4764878	0.4785941	0.4800000	.36
.37	0.4817268	0.4818307	0.4821423	0.4826623	0.4833918	0.4843322	0.4854856	0.4868545	0.4884424	0.4902538	0.4922945	0.4940000	.37
.38	0.4958503	0.4959512	0.4962539	0.4967591	0.4974677	0.4983811	0.4995011	0.5008302	0.5023715	0.5041291	0.5061080	0.5080000	.38
.39	0.5100735	0.5101715	0.5104658	0.5109569	0.5116456	0.5125333	0.5136216	0.5149130	0.5164100	0.5181166	0.5200373	0.5220000	.39
.40	0.5244005	0.5244959	0.5247821	0.5252597	0.5259296	0.5267928	0.5278511	0.5291064	0.5305615	0.5322197	0.5340852	0.5360000	.40
.41	0.5388360	0.5389288	0.5392074	0.5396722	0.5403240	0.5411639	0.5421935	0.5434146	0.5448298	0.5464420	0.5482552	0.5500000	.41
.42	0.5533847	0.5534751	0.5537463	0.5541989	0.5548335	0.5556511	0.5566533	0.5578418	0.5592189	0.5607874	0.5625508	0.5640000	.42
.43	0.5680515	0.5681395	0.5684038	0.5688446	0.5694627	0.5702592	0.5712352	0.5723925	0.5737333	0.5752601	0.5769761	0.5780000	.43
.44	0.5829273	0.5829927	0.5831848	0.5836145	0.5842168	0.5849929	0.5859440	0.5870715	0.5883775	0.5898645	0.5915353	0.5930000	.44
.45	0.5977601	0.5978438	0.5980949	0.5985138	0.5991011	0.5998577	0.6007847	0.6018837	0.6031565	0.6046054	0.6062331	0.6070000	.45
.46	0.6128130	0.6128946	0.6131395	0.6135481	0.6141209	0.6147629	0.6157629	0.6170715	0.6180755	0.6194880	0.6210743	0.6220000	.46
.47	0.6280060	0.6280856	0.6283246	0.6287233	0.6292822	0.6300022	0.6308842	0.6319296	0.6331401	0.6345175	0.6360643	0.6370000	.47
.48	0.6433454	0.6434231	0.6436564	0.6440456	0.6445911	0.6452938	0.6461546	0.6471748	0.6483560	0.6496998	0.6512087	0.6520000	.48
.49	0.6588377	0.6589136	0.6591414	0.6595214	0.6600541	0.6607401	0.6615806	0.6625765	0.6637294	0.6650411	0.6665135	0.6670000	.49
.50	0.6744898	0.6745639	0.6747864	0.6751576	0.6756778	0.6763479	0.6771687	0.6781413	0.6792671	0.6805477	0.6819851	0.6825000	.50

$P \setminus c$	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09	.10	c/P
.50	0.6744898	0.6745639	0.6747864	0.6751576	0.6756778	0.6763479	0.6771687	0.6781413	0.6792671	0.6805477	0.6819851	.50
.51	0.6903088	0.6903813	0.6905987	0.6909613	0.6914696	0.6921243	0.6929261	0.6938762	0.6949759	0.6962266	0.6976302	.51
.52	0.7063026	0.7063734	0.7065858	0.7069403	0.7074371	0.7080768	0.7088604	0.7097888	0.7108632	0.7120851	0.7134562	.52
.53	0.7224791	0.7225483	0.7227560	0.7231025	0.7235881	0.7242135	0.7249794	0.7258868	0.7269368	0.7281309	0.7294707	.53
.54	0.7388468	0.7389145	0.7391176	0.7394564	0.7399813	0.7405428	0.7412916	0.7421787	0.7432052	0.7443725	0.7456820	.54
.55	0.7554150	0.7554812	0.7556799	0.7560112	0.7564756	0.7570737	0.7578060	0.7586735	0.7596772	0.7608185	0.7620987	.55
.56	0.7721932	0.7722580	0.7724523	0.7727765	0.7732308	0.7738157	0.7745321	0.7753806	0.7763623	0.7774783	0.7787302	.56
.57	0.7891917	0.7892550	0.7894452	0.7897623	0.7902068	0.7907792	0.7914800	0.7923101	0.7932704	0.7943621	0.7955866	.57
.58	0.8064212	0.8064833	0.8066693	0.8069797	0.8074147	0.8079748	0.8086605	0.8094728	0.8104124	0.8114805	0.8126783	.58
.59	0.8238936	0.8239543	0.8241365	0.8244402	0.8248660	0.8254141	0.8260853	0.8268802	0.8277997	0.8288449	0.8300169	.59
.60	0.8416212	0.8416806	0.8418590	0.8421563	0.8425731	0.8431097	0.8437666	0.8445446	0.8454446	0.8464675	0.8476145	.60
.61	0.8596174	0.8596755	0.8598501	0.8601412	0.8605493	0.8610746	0.8617177	0.8624794	0.8633603	0.8643616	0.8654842	.61
.62	0.8778963	0.8779533	0.8781242	0.8784093	0.8788088	0.8793231	0.8799528	0.8806985	0.8815610	0.8825411	0.8836401	.62
.63	0.8964734	0.8965291	0.8966965	0.8969757	0.8973669	0.8978706	0.8984872	0.8992173	0.9000618	0.9010214	0.9020973	.63
.64	0.9153651	0.9154197	0.9155836	0.9158570	0.9162402	0.9167334	0.9173372	0.9180522	0.9188791	0.9198188	0.9208722	.64
.65	0.9345893	0.9346428	0.9348034	0.9350711	0.9354464	0.9359294	0.9365208	0.9372210	0.9380308	0.9389509	0.9399824	.65
.66	0.9541653	0.9542177	0.9543749	0.9546372	0.9550047	0.9554779	0.9560570	0.9567428	0.9575359	0.9584370	0.9594470	.66
.67	0.9741139	0.9741652	0.9743193	0.9745762	0.9749361	0.9753996	0.9759668	0.9766385	0.9774152	0.9782977	0.9792869	.67
.68	0.9944579	0.9945082	0.9946591	0.9949107	0.9952633	0.9957172	0.9962729	0.9969307	0.9976914	0.9985557	0.9995245	.68
.69	1.0152220	1.0152713	1.0154191	1.0156656	1.0160110	1.0164556	1.0169998	1.0176442	1.0183892	1.0192357	1.0201844	.69
.70	1.0364334	1.0364816	1.0366264	1.0368679	1.0372062	1.0376417	1.0381747	1.0388058	1.0395356	1.0403646	1.0412937	.70
.71	1.0581216	1.0581689	1.0583107	1.0585472	1.0588786	1.0593051	1.0598272	1.0604453	1.0611600	1.0619719	1.0628818	.71
.72	1.0803193	1.0803656	1.0805045	1.0807362	1.0810607	1.0814785	1.0819898	1.0825952	1.0832951	1.0840903	1.0849813	.72
.73	1.1030626	1.1031079	1.1032439	1.1034708	1.1037886	1.1041978	1.1046985	1.1052914	1.1059768	1.1067554	1.1076280	.73
.74	1.1263911	1.1264355	1.1265687	1.1267909	1.1271022	1.1275028	1.1279932	1.1285737	1.1292449	1.1300073	1.1308616	.74
.75	1.1503494	1.1503928	1.1505233	1.1507408	1.1510456	1.1514379	1.1519180	1.1524864	1.1531435	1.1538900	1.1547263	.75
.76	1.1749868	1.1750293	1.1751571	1.1753700	1.1756684	1.1760525	1.1765225	1.1770789	1.1777222	1.1784529	1.1792716	.76
.77	1.2003589	1.2004005	1.2005255	1.2007340	1.2010260	1.2014020	1.2018621	1.2024067	1.2030363	1.2037515	1.2045528	.77
.78	1.2265281	1.2265689	1.2266912	1.2268952	1.2271811	1.2275490	1.2279992	1.2285322	1.2291483	1.2298482	1.2306322	.78
.79	1.2535654	1.2536053	1.2537250	1.2539246	1.2542043	1.2545642	1.2550094	1.2555262	1.2561290	1.2568137	1.2575807	.79
.80	1.2815516	1.2815906	1.2817077	1.2819029	1.2821765	1.2825285	1.2829594	1.2834695	1.2840591	1.2847287	1.2854789	.80
.81	1.3105791	1.3106173	1.3107318	1.3109227	1.3111902	1.3115344	1.3119558	1.3124545	1.3130310	1.3136857	1.3144192	.81
.82	1.3407550	1.3407923	1.3409042	1.3410909	1.3413523	1.3416888	1.3421007	1.3425881	1.3431516	1.3437915	1.3445084	.82
.83	1.3722038	1.3722402	1.3723496	1.3725319	1.3727874	1.3731162	1.3735186	1.3739948	1.3745453	1.3751706	1.3758709	.83
.84	1.4050716	1.4051071	1.4052139	1.4053920	1.4056415	1.4059626	1.4063555	1.4068206	1.4073582	1.4079688	1.4086527	.84
.85	1.4395315	1.4395662	1.4396704	1.4398442	1.4400878	1.4404012	1.4407847	1.4412386	1.4417633	1.4423592	1.4430266	.85
.86	1.4757910	1.4758249	1.4759266	1.4760961	1.4763336	1.4766393	1.4770134	1.4774562	1.4779680	1.4785491	1.4792001	.86
.87	1.5141019	1.5141349	1.5142340	1.5143993	1.5146308	1.5149287	1.5152933	1.5157249	1.5162236	1.5167901	1.5174245	.87
.88	1.5547736	1.5548058	1.5549023	1.5550632	1.5552886	1.5555788	1.5559338	1.5563541	1.5568398	1.5573913	1.5580091	.88
.89	1.5981931	1.5982244	1.5983183	1.5984749	1.5986942	1.5989764	1.5993218	1.5997306	1.6002031	1.6007396	1.6013406	.89
.90	1.6448536	1.6448840	1.6449752	1.6451274	1.6453405	1.6456147	1.6459503	1.6463475	1.6468065	1.6473278	1.6479116	.90
.91	1.6953977	1.6954272	1.6955157	1.6956633	1.6958700	1.6961361	1.6964617	1.6968470	1.6972923	1.6977980	1.6983644	.91
.92	1.7506861	1.7507146	1.7508003	1.7509432	1.7511435	1.7514011	1.7517164	1.7520895	1.7525208	1.7530104	1.7535589	.92
.93	1.8119107	1.8119383	1.8120211	1.8121592	1.8123526	1.8126015	1.8129062	1.8132687	1.8136833	1.8141564	1.8146862	.93
.94	1.8807936	1.8808202	1.8809000	1.8810330	1.8812193	1.8814592	1.8817526	1.8820999	1.8825013	1.8829570	1.8834674	.94
.95	1.9599640	1.9599895	1.9600661	1.9601937	1.9603725	1.9606027	1.9608842	1.9612175	1.9616026	1.9620399	1.9625296	.95
.96	2.0537489	2.0537733	2.0538463	2.0539681	2.0541388	2.0543584	2.0546271	2.0549451	2.0553126	2.0557299	2.0561972	.96
.97	2.1700904	2.1701134	2.1701826	2.1702978	2.1704594	2.1706672	2.1709215	2.1712224	2.1715702	2.1719651	2.1724073	.97
.98	2.3263479	2.3263694	2.3264339	2.3265414	2.3266921	2.3268859	2.3271231	2.3274039	2.3277283	2.3280966	2.3285090	.98
.99	2.5758293	2.5758487	2.5759070	2.5760041	2.5761402	2.5763152	2.5765295	2.5767830	2.5770759	2.5774085	2.5777809	.99

$$K = K(P, c) \text{ where probability } P = P(K, c), \quad 0 \leq c = v/u \leq 1, \quad R = K * u$$

$P \setminus c$	.10	.11	.12	.13	.14	.15	.16	.17	.18	.19	.20	c/P
.01	0.0452970	0.0474533	0.0495160	0.0514964	0.0534036	0.0552452	0.0570275	0.0587560	0.0604351	0.0620689	0.0636610	.01
.02	0.0649061	0.0679137	0.0707951	0.0735649	0.0762351	0.0788156	0.0813149	0.0837402	0.0860977	0.0883928	0.0906301	.02
.03	0.0805715	0.0841984	0.0876794	0.0910303	0.0942646	0.0973935	0.1004265	0.1033718	0.1062367	0.1090274	0.1117492	.03
.04	0.0943310	0.0984468	0.1024055	0.1062229	0.1099125	0.1134860	0.1169535	0.1203236	0.1236041	0.1268016	0.1299221	.04
.05	0.1069715	0.1114845	0.1158362	0.1200411	0.1241119	0.1280599	0.1318950	0.1356261	0.1392609	0.1428063	0.1462685	.05
.06	0.1188981	0.1237354	0.1284140	0.1329454	0.1373406	0.1416097	0.1457622	0.1498063	0.1537497	0.1575993	0.1613611	.06
.07	0.1303532	0.1354530	0.1404030	0.1452102	0.1501883	0.1544297	0.1588586	0.1631772	0.1673927	0.1715114	0.1755395	.07
.08	0.1414973	0.1468043	0.1519763	0.1570151	0.1619251	0.1667122	0.1713827	0.1759433	0.1803999	0.1847587	0.1890251	.08
.09	0.1524437	0.1579068	0.1632562	0.1684865	0.1735974	0.1785915	0.1834731	0.1882469	0.1929179	0.1974914	0.2019721	.09
.10	0.1632765	0.1688480	0.1743328	0.1797174	0.1849958	0.1901667	0.1952314	0.2001926	0.2050540	0.2098194	0.2144931	.10
.11	0.1740604	0.1796948	0.1852755	0.1907794	0.1961940	0.2015133	0.2067353	0.2118601	0.2168897	0.2218265	0.2266738	.11
.12	0.1848459	0.1905005	0.1961393	0.2017291	0.2072502	0.2126911	0.2180459	0.2233121	0.2284892	0.2335783	0.2385813	.12
.13	0.1956734	0.2013077	0.2069686	0.2126124	0.2182114	0.2237483	0.2292128	0.2345991	0.2399044	0.2451277	0.2502695	.13
.14	0.2065746	0.2121512	0.2178001	0.2234672	0.2291167	0.2347250	0.2402769	0.2457630	0.2511778	0.2565181	0.2617827	.14
.15	0.2175744	0.2230590	0.2286640	0.2343253	0.2399899	0.2456547	0.2512725	0.2568389	0.2623452	0.2677860	0.2731583	.15
.16	0.2286916	0.2340541	0.2395855	0.2452135	0.2508859	0.2565663	0.2622290	0.2678566	0.2734371	0.2789625	0.2844277	.16
.17	0.2399399	0.2451545	0.2505857	0.2561543	0.2618016	0.2674844	0.2731719	0.2788423	0.2844801	0.2900746	0.2956183	.17
.18	0.2513282	0.2563741	0.2616815	0.2671672	0.2727664	0.2784305	0.2841233	0.2898185	0.2954972	0.3011456	0.3067540	.18
.19	0.2628616	0.2677232	0.2728867	0.2782681	0.2837982	0.2894234	0.2951026	0.3008054	0.3065089	0.3121964	0.3178558	.19
.20	0.2745418	0.2792085	0.2842122	0.2894705	0.2949121	0.3004795	0.3061272	0.3118206	0.3175334	0.3232457	0.3289428	.20
.21	0.2863678	0.2908343	0.2956659	0.3007853	0.3061211	0.3116130	0.3172122	0.3228801	0.3285871	0.3343101	0.3400319	.21
.22	0.2983368	0.3026021	0.3072536	0.3122213	0.3174361	0.3228366	0.3283711	0.3339982	0.3396847	0.3454047	0.3511384	.22
.23	0.3104444	0.3145116	0.3189787	0.3237851	0.3288661	0.3341607	0.3396159	0.3451875	0.3508395	0.3565434	0.3622765	.23
.24	0.3226856	0.3265611	0.3308429	0.3354816	0.3404184	0.3455948	0.3509571	0.3564596	0.3620638	0.3677386	0.3734591	.24
.25	0.3350551	0.3387475	0.3428465	0.3473140	0.3520989	0.3571464	0.3624039	0.3678246	0.3733684	0.3790019	0.3846980	.25
.26	0.3475479	0.3510676	0.3549886	0.3592842	0.3639119	0.3688220	0.3739642	0.3792917	0.3847633	0.3903439	0.3960043	.26
.27	0.3601594	0.3635175	0.3672674	0.3713928	0.3758605	0.3806269	0.3856449	0.3908690	0.3962575	0.4017742	0.4073881	.27
.28	0.3728855	0.3760935	0.3796807	0.3836398	0.3879468	0.3925650	0.3974518	0.4025637	0.4078593	0.4133017	0.4188589	.28
.29	0.3857231	0.3887923	0.3922258	0.3960243	0.4001719	0.4046396	0.4093898	0.4143819	0.4195759	0.4249346	0.4304253	.29
.30	0.3986696	0.4016108	0.4049004	0.4085449	0.4125364	0.4168529	0.4214628	0.4263291	0.4314138	0.4366804	0.4420955	.30
.31	0.4117235	0.4145468	0.4177020	0.4212003	0.4250401	0.4292066	0.4336741	0.4384100	0.4433790	0.4485457	0.4538771	.31
.32	0.4248839	0.4275983	0.4306287	0.4339888	0.4376826	0.4417015	0.4460261	0.4506285	0.4554766	0.4603369	0.4657770	.32
.33	0.4381505	0.4407644	0.4436788	0.4469091	0.4504632	0.4543384	0.4585209	0.4629880	0.4677112	0.4726595	0.4778017	.33
.34	0.4515237	0.4540445	0.4568513	0.4599600	0.4633814	0.4671176	0.4711601	0.4754913	0.4800869	0.4849187	0.4899570	.34
.35	0.4650044	0.4674387	0.4701456	0.4731406	0.4764366	0.4800391	0.4839447	0.4881408	0.4926072	0.4973190	0.5022487	.35
.36	0.4785941	0.4809478	0.4835617	0.4864506	0.4896283	0.4931031	0.4968759	0.5009386	0.5052753	0.5098646	0.5146816	.36
.37	0.4922945	0.4945729	0.4971001	0.4998900	0.5029564	0.5063099	0.5099545	0.5138864	0.5180940	0.5225594	0.5272607	.37
.38	0.5061080	0.5083157	0.5107620	0.5134593	0.5164213	0.5196597	0.5231813	0.5269858	0.5310657	0.5354069	0.5399902	.38
.39	0.5200373	0.5221785	0.5245488	0.5271595	0.5300236	0.5331533	0.5365572	0.5402385	0.5441929	0.5484102	0.5528744	.39
.40	0.5340852	0.5361637	0.5384627	0.5409922	0.5437644	0.5467914	0.5500834	0.5536458	0.5574778	0.5615725	0.5659170	.40
.41	0.5482552	0.5502743	0.5525061	0.5549593	0.5576451	0.5605755	0.5637612	0.5672095	0.5709226	0.5748965	0.5791218	.41
.42	0.5625508	0.5645137	0.5666819	0.5690633	0.5716679	0.5745072	0.5775921	0.5809314	0.5845295	0.5883852	0.5924923	.42
.43	0.5769761	0.5788855	0.5809935	0.5833071	0.5858352	0.5885886	0.5915782	0.5948135	0.5983008	0.6020415	0.6060320	.43
.44	0.5915353	0.5933938	0.5954446	0.5976940	0.6001500	0.6028223	0.6057217	0.6088581	0.6122391	0.6158682	0.6197444	.44
.45	0.6062331	0.6080430	0.6100394	0.6122279	0.6146156	0.6172114	0.6200254	0.6230678	0.6263470	0.6298084	0.6336330	.45
.46	0.6210743	0.6228379	0.6247824	0.6269129	0.6292359	0.6317592	0.6344925	0.6374457	0.640678	0.6440453	0.6477014	.46
.47	0.6360643	0.6377835	0.6396785	0.6417538	0.6440152	0.6464699	0.6491267	0.6519952	0.6550846	0.6584025	0.6619536	.47
.48	0.6512087	0.6528853	0.6547329	0.6567555	0.6589583	0.6613478	0.6639312	0.6667202	0.6697214	0.6729438	0.6763934	.48
.49	0.6665135	0.6681493	0.6699514	0.6719236	0.6740705	0.6763980	0.6789134	0.6816251	0.6845423	0.6876734	0.6910253	.49
.50	0.6819851	0.6835816	0.6853401	0.6872640	0.6893574	0.6916258	0.6940756	0.6967148	0.6995521	0.7025959	0.7058539	.50

$K = K(P, c)$ where probability $P = P(K, c)$, $0 \leq c = v/u \leq 1$, $R = K * u$										c/P	
$P \backslash c$	.10	.11	.12	.13	.14	.15	.16	.17	.18	.19	.20
.50	0.6819851	0.6835816	0.6853401	0.6872640	0.6893574	0.6916258	0.6940756	0.6967148	0.6995521	0.7025959	0.7058539
.51	0.6976302	0.6991891	0.7009056	0.7027831	0.7048254	0.7070372	0.7094246	0.7119947	0.7147558	0.7177164	0.7208842
.52	0.7134562	0.7149787	0.7166549	0.7184879	0.7204310	0.7226387	0.7249664	0.7274707	0.7301593	0.7330404	0.7361219
.53	0.7294707	0.7309582	0.7325956	0.7343859	0.7363315	0.7384437	0.7407080	0.7431495	0.7457689	0.7485740	0.7515730
.54	0.7456820	0.7471356	0.7487355	0.7504842	0.7523848	0.7544408	0.7566567	0.7590380	0.7615914	0.7643241	0.7672440
.55	0.7620987	0.7635197	0.7650834	0.7667922	0.7686490	0.7706571	0.7728205	0.7751443	0.7776344	0.7802979	0.7831422
.56	0.7787302	0.7801196	0.7816483	0.7833187	0.7851332	0.7870951	0.7892080	0.7914766	0.7939062	0.7965034	0.7992753
.57	0.7955866	0.7969454	0.7984402	0.8000733	0.8018471	0.8037644	0.8058287	0.8080441	0.8104157	0.8129494	0.8156521
.58	0.8126783	0.8140075	0.8154696	0.8170666	0.8188009	0.8206752	0.8226926	0.8248569	0.8271727	0.8296455	0.8322817
.59	0.8300169	0.8313173	0.8327476	0.8343097	0.8360058	0.8378385	0.8398105	0.8419255	0.8441877	0.8466020	0.8491745
.60	0.8476145	0.8488870	0.8502864	0.8518147	0.8534738	0.8552661	0.8571943	0.8592617	0.8614721	0.8638302	0.8663414
.61	0.8654842	0.8667296	0.8680991	0.8695944	0.8712176	0.8729708	0.8748565	0.8768779	0.8790384	0.8813423	0.8837946
.62	0.8836401	0.8848591	0.8861994	0.8876628	0.8892511	0.8909663	0.8928109	0.8947877	0.8968999	0.8991515	0.9015470
.63	0.9020973	0.9032906	0.9046026	0.9060350	0.9075893	0.9092677	0.9110723	0.9130058	0.9150713	0.9172723	0.9196131
.64	0.9208722	0.9220405	0.9233249	0.9247269	0.9262483	0.9278908	0.9296566	0.9315481	0.9335682	0.9357203	0.9380082
.65	0.9399824	0.9411263	0.9423838	0.9437564	0.9452455	0.9468531	0.9485811	0.9504319	0.9524080	0.9545126	0.9567492
.66	0.9594470	0.9605671	0.9617984	0.9631422	0.9646000	0.9661736	0.9678648	0.9696758	0.9716091	0.9736677	0.9758547
.67	0.9792869	0.9803837	0.9815893	0.9829050	0.9843323	0.9858726	0.9875280	0.9893003	0.9911920	0.9932057	0.9953446
.68	0.9995245	1.0005986	1.0017791	1.0030674	1.0044647	1.0059727	1.0075930	1.0093276	1.0111788	1.0131489	1.0152409
.69	1.0201844	1.0212363	1.0223924	1.0236538	1.0250219	1.0264982	1.0280843	1.0297821	1.0315936	1.0335213	1.0355677
.70	1.0412937	1.0423238	1.0434559	1.0446910	1.0460305	1.0474758	1.0490285	1.0506903	1.0524631	1.0543493	1.0563513
.71	1.0628818	1.0638906	1.0649991	1.0662085	1.0675200	1.0689350	1.0704549	1.0720814	1.0738165	1.0756622	1.0776208
.72	1.0849813	1.0859691	1.0870545	1.0882387	1.0895227	1.0909079	1.0923958	1.0939878	1.0956859	1.0974919	1.0994081
.73	1.1076280	1.1085952	1.1096580	1.1108173	1.1120744	1.1134304	1.1148868	1.1164450	1.1181068	1.1198740	1.1217488
.74	1.1308616	1.1318086	1.1328491	1.1339841	1.1352147	1.1365420	1.1379675	1.1394925	1.1411187	1.1428478	1.1446819
.75	1.1547263	1.1556534	1.1566720	1.1577830	1.1589876	1.1602867	1.1616818	1.1631742	1.1647654	1.1664572	1.1682514
.76	1.1792716	1.1801791	1.1811761	1.1822635	1.1834424	1.1847138	1.1860790	1.1875392	1.1890961	1.1907511	1.1925062
.77	1.2045528	1.2054409	1.2064166	1.2074808	1.2086343	1.2098784	1.2112141	1.2126427	1.2141657	1.2157846	1.2175011
.78	1.2306322	1.2315012	1.2324559	1.2334971	1.2346257	1.2358428	1.2371494	1.2385468	1.2400364	1.2416197	1.2432982
.79	1.2575807	1.2584309	1.2593647	1.2603832	1.2614871	1.2626775	1.2639554	1.2653221	1.2667787	1.2683268	1.2699679
.80	1.2854789	1.2863103	1.2872236	1.2882196	1.2892991	1.2904631	1.2917126	1.2930488	1.2944728	1.2959861	1.2975902
.81	1.3144192	1.3152321	1.3161250	1.3170987	1.3181540	1.3192918	1.3205131	1.3218191	1.3232109	1.3246898	1.3262573
.82	1.3445084	1.3453029	1.3461755	1.3471271	1.3481584	1.3492702	1.3504636	1.3517397	1.3530994	1.3545442	1.3560754
.83	1.3758709	1.3766471	1.3774996	1.3784291	1.3794365	1.3805225	1.3816882	1.3829344	1.3842624	1.3856733	1.3871683
.84	1.4086527	1.4094105	1.4102429	1.4111505	1.4121341	1.4131944	1.4143324	1.4155490	1.4168453	1.4182224	1.4196816
.85	1.4430266	1.4437663	1.4445786	1.4454643	1.4464241	1.4474587	1.4485691	1.4497561	1.4510208	1.4523642	1.4537877
.86	1.4792001	1.4799215	1.4807137	1.4815775	1.4825134	1.4835224	1.4846051	1.4857625	1.4869956	1.4883053	1.4896930
.87	1.5174245	1.5181275	1.5188996	1.5197413	1.5206534	1.5216365	1.5226915	1.5238192	1.5250206	1.5262966	1.5276484
.88	1.5580091	1.5586936	1.5594454	1.5602649	1.5611530	1.5621101	1.5631372	1.5642350	1.5654044	1.5666465	1.5679622
.89	1.6013406	1.6020064	1.6027376	1.6035348	1.6043985	1.6053294	1.6063282	1.6073958	1.6085330	1.6097408	1.6110201
.90	1.6479116	1.6485585	1.6492688	1.6500432	1.6508822	1.6517865	1.6527567	1.6537937	1.6548982	1.6560711	1.6573135
.91	1.6983644	1.6989919	1.6996809	1.7004321	1.7012459	1.7021230	1.7030640	1.7040697	1.7051409	1.7062783	1.7074831
.92	1.7535589	1.7541665	1.7548337	1.7555610	1.7563489	1.7571981	1.7581091	1.7590827	1.7601197	1.7612207	1.7623868
.93	1.8146862	1.8152732	1.8159178	1.8166204	1.8173816	1.8182018	1.8190818	1.8200222	1.8210237	1.8220871	1.8232132
.94	1.8834674	1.8840328	1.8846537	1.8853304	1.8860635	1.8868536	1.8877011	1.8886067	1.8895712	1.8905952	1.8916795
.95	1.9625296	1.9630721	1.9636678	1.9643171	1.9650204	1.9657784	1.9665914	1.9674602	1.9683853	1.9693675	1.9704075
.96	2.0561972	2.0567149	2.0572833	2.0579028	2.0585739	2.0592970	2.0600727	2.0609015	2.0617840	2.0627209	2.0637129
.97	2.1724073	2.1728971	2.1734350	2.1740211	2.1746561	2.1753402	2.1760741	2.1768582	2.1776930	2.1785793	2.1795176
.98	2.3285090	2.3289659	2.3294675	2.3300142	2.3306063	2.3312443	2.3319286	2.3326597	2.3334381	2.3342644	2.3351392
.99	2.5777809	2.5781935	2.5786464	2.5791400	2.5796746	2.5802506	2.5808684	2.5815283	2.5822309	2.5829767	2.5837662

$P \setminus c$	.20	.21	.22	.23	.24	.25	.26	.27	.28	.29	.30	c/P
.01	0.0636610	0.0652142	0.0667315	0.0682151	0.0696671	0.0710896	0.0724843	0.0738528	0.0751964	0.0765164	0.0778142	.01
.02	0.0906301	0.0928139	0.0949479	0.0970352	0.0990788	0.1010814	0.1030454	0.1049729	0.1068658	0.1087260	0.1105552	.02
.03	0.1117492	0.1144072	0.1170055	0.1195480	0.1220381	0.1244791	0.1268736	0.1292243	0.1315334	0.1338032	0.1360355	.03
.04	0.1299221	0.1329709	0.1359525	0.1388714	0.1417313	0.1445356	0.1472874	0.1499897	0.1526449	0.1552555	0.1578236	.04
.05	0.1462685	0.1496530	0.1529648	0.1562082	0.1593874	0.1625060	0.1655672	0.1685743	0.1715299	0.1744366	0.1772967	.05
.06	0.1613611	0.1650408	0.1686433	0.1721733	0.1756349	0.1790319	0.1823677	0.1856455	0.1888682	0.1920386	0.1951590	.06
.07	0.1755395	0.1794822	0.1833447	0.1871314	0.1908465	0.1944938	0.1980770	0.2015991	0.2050631	0.2084720	0.2118281	.07
.08	0.1890251	0.1932043	0.1973011	0.2013199	0.2052647	0.2091395	0.2129477	0.2166925	0.2203769	0.2240037	0.2275756	.08
.09	0.2019721	0.2063648	0.2106740	0.2149039	0.2190583	0.2231410	0.2271554	0.2311046	0.2349916	0.2388193	0.2425901	.09
.10	0.2144931	0.2190791	0.2235814	0.2280039	0.2323503	0.2366239	0.2408281	0.2449659	0.2490402	0.2530538	0.2570092	.10
.11	0.2266738	0.2314348	0.2361129	0.2407115	0.2452338	0.2496832	0.2540627	0.2583750	0.2626231	0.2668096	0.2709368	.11
.12	0.2385813	0.2435003	0.2483383	0.2530978	0.2577819	0.2623933	0.2669348	0.2714090	0.2758187	0.2801662	0.2844539	.12
.13	0.2502695	0.2553309	0.2603138	0.2652204	0.2700528	0.2748135	0.2795048	0.2841295	0.2886896	0.2931874	0.2976252	.13
.14	0.2617827	0.2669717	0.2720857	0.2771260	0.2820943	0.2869926	0.2918227	0.2965867	0.3012869	0.3059251	0.3105034	.14
.15	0.2731583	0.2784605	0.2836922	0.2888539	0.2939463	0.2989709	0.3039291	0.3088226	0.3136531	0.3184225	0.3231325	.15
.16	0.2844277	0.2898295	0.2951662	0.3004372	0.3056426	0.3107829	0.3158591	0.3208724	0.3258242	0.3307160	0.3355493	.16
.17	0.2956183	0.3011064	0.3065358	0.3119046	0.3172120	0.3224579	0.3276425	0.3327665	0.3378309	0.3428368	0.3477855	.17
.18	0.3067540	0.3123155	0.3178256	0.3232810	0.3286801	0.3340216	0.3393053	0.3445313	0.3496999	0.3548121	0.3598686	.18
.19	0.3178558	0.3234782	0.3290572	0.3345885	0.3400689	0.3454966	0.3508704	0.3561898	0.3614547	0.3666654	0.3718224	.19
.20	0.3289428	0.3346137	0.3402502	0.3458466	0.3513984	0.3569029	0.3623581	0.3677626	0.3731159	0.3784178	0.3836682	.20
.21	0.3400319	0.3457391	0.3514220	0.3570729	0.3626865	0.3682586	0.3737865	0.3792682	0.3847023	0.3900880	0.3954252	.21
.22	0.3511384	0.3568702	0.3625883	0.3682836	0.3739492	0.3795801	0.3851723	0.3907231	0.3962305	0.4016932	0.4071103	.22
.23	0.3622765	0.3680212	0.3737637	0.3794932	0.3852015	0.3908822	0.3965305	0.4021427	0.4077161	0.4132487	0.4187392	.23
.24	0.3734591	0.3792053	0.3849615	0.3907153	0.3964569	0.4021787	0.4078749	0.4135408	0.4191729	0.4247687	0.4303263	.24
.25	0.3846980	0.3904346	0.3961941	0.4019623	0.4077281	0.4134824	0.4192184	0.4249304	0.4306142	0.4362665	0.4418846	.25
.26	0.3960043	0.4017206	0.4074731	0.4132461	0.4190269	0.4248053	0.4305730	0.4363237	0.4420520	0.4477541	0.4534265	.26
.27	0.4073881	0.4130735	0.4188091	0.4245775	0.4303644	0.4361584	0.4419501	0.4477319	0.4534978	0.4592430	0.4649636	.27
.28	0.4188589	0.4245034	0.4302123	0.4359668	0.4417511	0.4475524	0.4533601	0.4591658	0.4649623	0.4707442	0.4765067	.28
.29	0.4304253	0.4360193	0.4416922	0.4474238	0.4531968	0.4589972	0.4648133	0.4706355	0.4764558	0.4822678	0.4880662	.29
.30	0.4420955	0.4476298	0.4532578	0.4589576	0.4647110	0.4705025	0.4763193	0.4821507	0.4879879	0.4938236	0.4996517	.30
.31	0.4538771	0.4593432	0.4649174	0.4705771	0.4763025	0.4820772	0.4878872	0.4937208	0.4995681	0.5054211	0.5112728	.31
.32	0.4657770	0.4711668	0.4766792	0.4822905	0.4879801	0.4937303	0.4995260	0.5053546	0.5112054	0.5170692	0.5229386	.32
.33	0.4778017	0.4831078	0.4885507	0.4941059	0.4997519	0.5054700	0.5112443	0.5170610	0.5229084	0.5287768	0.5346578	.33
.34	0.4899570	0.4951729	0.5005392	0.5060308	0.5116258	0.5173046	0.5230502	0.5288481	0.5346858	0.5405525	0.5464391	.34
.35	0.5022487	0.5073684	0.5126514	0.5180726	0.5236095	0.5292418	0.5349519	0.5407243	0.5465456	0.5524044	0.5582907	.35
.36	0.5146816	0.5197000	0.5248938	0.5302382	0.5357103	0.5412895	0.5469573	0.5526976	0.5584962	0.5643408	0.5702208	.36
.37	0.5272607	0.5321734	0.5372727	0.5425343	0.5479353	0.5534548	0.5590739	0.5647756	0.5705452	0.5763697	0.5822377	.37
.38	0.5399902	0.5447937	0.5497939	0.5549674	0.5602915	0.5657452	0.5713092	0.5769662	0.5827007	0.5884990	0.5943491	.38
.39	0.5528744	0.5575659	0.5624631	0.5675436	0.5727854	0.5781676	0.5836707	0.5892769	0.5949702	0.6007365	0.6065631	.39
.40	0.5659170	0.5704946	0.5752856	0.5802690	0.5854237	0.5907290	0.5961654	0.6017151	0.6073615	0.6130900	0.6188874	.40
.41	0.5791218	0.5835843	0.5882666	0.5931494	0.5982126	0.6034361	0.6088006	0.6142882	0.6198821	0.6255672	0.6313299	.41
.42	0.5924923	0.5968392	0.6014111	0.6061905	0.6111583	0.6162956	0.6215833	0.6270036	0.6325396	0.6381759	0.6438984	.42
.43	0.6060320	0.6102637	0.6147241	0.6193976	0.6242670	0.6293140	0.6345203	0.6398684	0.6453414	0.6509236	0.6566007	.43
.44	0.6197444	0.6238617	0.6282102	0.6327763	0.6375445	0.6424978	0.6476187	0.6528900	0.6582951	0.6638182	0.6694447	.44
.45	0.6336330	0.6376374	0.6418741	0.6463319	0.6509969	0.6558535	0.6608852	0.6660756	0.6714081	0.6768673	0.6824384	.45
.46	0.6477014	0.6515950	0.6557207	0.6600697	0.6646299	0.6693874	0.6743268	0.6794324	0.6846882	0.6900788	0.6955897	.46
.47	0.6619536	0.6657386	0.6697547	0.6739950	0.6784495	0.6831059	0.6879503	0.6929676	0.6981428	0.7034607	0.7089067	.47
.48	0.6763934	0.6800728	0.6839809	0.6881132	0.6924461	0.6970156	0.7017626	0.7066887	0.7117796	0.7170207	0.7223977	.48
.49	0.6910253	0.6946020	0.6984044	0.7024298	0.7066722	0.7111229	0.7157707	0.7206031	0.7256065	0.7307671	0.7360710	.49
.50	0.7058539	0.7093312	0.7130304	0.7169505	0.7210875	0.7254344	0.7299817	0.7347182	0.7396314	0.7447082	0.7499351	.50

R = K * u ≤ 1, 0 ≤ c = v/u ≤ 1, K = K(P, c) where probability P = P(K, c),												
P \ c	.20	.21	.22	.23	.24	.25	.26	.27	.28	.29	.30	c/P
.50	0.7058539	0.7093312	0.7130304	0.7169505	0.7210875	0.7254344	0.7299817	0.7347182	0.7396314	0.7447082	0.7499351	.50
.51	0.7208842	0.7242656	0.7278643	0.7316811	0.7357137	0.7399569	0.7444029	0.7490418	0.7538623	0.7588522	0.7639988	.51
.52	0.7361219	0.7394109	0.7429121	0.7466278	0.7505574	0.7546974	0.7590016	0.7633817	0.76783075	0.77232079	0.77692709	.52
.53	0.7515730	0.7547730	0.7581799	0.7617970	0.7656254	0.7696631	0.7739056	0.77833460	0.7829755	0.7877841	0.7927606	.53
.54	0.7672440	0.7703586	0.7736744	0.7771957	0.7809249	0.7848616	0.7890027	0.7933430	0.7978751	0.8025900	0.8074776	.54
.55	0.7831422	0.7861748	0.7894027	0.7928311	0.7964634	0.8003007	0.8043414	0.8085816	0.8130154	0.8176350	0.8224314	.55
.56	0.7992753	0.8022294	0.8053727	0.8087112	0.8122491	0.8159888	0.8199302	0.8240707	0.8284058	0.8329290	0.8376324	.56
.57	0.8156521	0.8185308	0.8215927	0.8248443	0.8282906	0.8319349	0.8357783	0.8398198	0.8440562	0.8484822	0.8530911	.57
.58	0.8322817	0.8350882	0.8380719	0.8412396	0.8445970	0.8481482	0.8518955	0.8558391	0.8599770	0.8643054	0.8688187	.58
.59	0.8491745	0.8519116	0.8548202	0.8579071	0.8611784	0.8646389	0.8682920	0.8721390	0.8761792	0.8804100	0.8848269	.59
.60	0.8663414	0.8690119	0.8718483	0.8748574	0.8780454	0.8814180	0.8849790	0.8887310	0.8926744	0.8968077	0.9011279	.60
.61	0.8837946	0.8864010	0.8891680	0.8921021	0.8952099	0.8984970	0.9019683	0.9056271	0.9094749	0.9135114	0.9177347	.61
.62	0.9015470	0.9040919	0.9067921	0.9096541	0.9126842	0.9158887	0.9192727	0.9228403	0.9265940	0.9305345	0.9346611	.62
.63	0.9196131	0.9220986	0.9247345	0.9275270	0.9304823	0.9336068	0.9369060	0.9403845	0.9440458	0.9478915	0.9519220	.63
.64	0.9380082	0.9404365	0.9430104	0.9457359	0.9486191	0.9516662	0.9548831	0.9582749	0.9618456	0.9655979	0.9695330	.64
.65	0.9567492	0.9591222	0.9616364	0.9642973	0.9671109	0.9700832	0.9732203	0.9765277	0.9800099	0.9836704	0.9875112	.65
.66	0.9758547	0.9781742	0.9806306	0.9832292	0.9859755	0.9888756	0.9919354	0.9951608	0.9985566	1.0021270	1.0058748	.66
.67	0.9953446	0.9976122	1.0000128	1.0025511	1.0052325	1.0080628	1.0110478	1.0141935	1.0175051	1.0209873	1.0246436	.67
.68	1.0152409	1.0174582	1.0198046	1.0222846	1.0249033	1.0276660	1.0305787	1.0336471	1.0368768	1.0402728	1.0438392	.68
.69	1.0355677	1.0377361	1.0400299	1.0424534	1.0450113	1.0477088	1.0505513	1.0535448	1.0566949	1.0600068	1.0634851	.69
.70	1.0563513	1.0584721	1.0607149	1.0630836	1.0655825	1.0682167	1.0709914	1.0739123	1.0769849	1.0802149	1.0836070	.70
.71	1.0776208	1.0796951	1.0818882	1.0842036	1.0866455	1.0892183	1.0919272	1.0947776	1.0977751	1.1009252	1.1042331	.71
.72	1.0994081	1.1014371	1.1035818	1.1058453	1.1082316	1.1107449	1.1133900	1.1161720	1.1190965	1.1221689	1.1253947	.72
.73	1.1217488	1.1237335	1.1258308	1.1280438	1.1303760	1.1328314	1.1354144	1.1381301	1.1409837	1.1439805	1.1471261	.73
.74	1.1446819	1.1466233	1.1486743	1.1508379	1.1531174	1.1555164	1.1580392	1.1606904	1.1634750	1.1663983	1.1694658	.74
.75	1.1682514	1.1701502	1.1721560	1.1742713	1.1764993	1.1788434	1.1813074	1.1838958	1.1866134	1.1894651	1.1924565	.75
.76	1.1925062	1.1943632	1.1963245	1.1983926	1.2005702	1.2028605	1.2052673	1.2077946	1.2104468	1.2132289	1.2161460	.76
.77	1.2175011	1.2193171	1.2212348	1.2232564	1.2253846	1.2276225	1.2299733	1.2324408	1.2350294	1.2377436	1.2405884	.77
.78	1.2432982	1.2450739	1.2469486	1.2489246	1.2510044	1.2531907	1.2554867	1.2578959	1.2604223	1.2630702	1.2658444	.78
.79	1.2699679	1.2717037	1.2735361	1.2754672	1.2774993	1.2796350	1.2818722	1.2842293	1.2866949	1.2892780	1.2919833	.79
.80	1.2975902	1.2992867	1.3010773	1.3029641	1.3049493	1.3070352	1.3092246	1.3115206	1.3139266	1.3164463	1.3190841	.80
.81	1.3262573	1.3279148	1.3296642	1.3315072	1.3334460	1.3354829	1.3376203	1.3398611	1.3422085	1.3446661	1.3472379	.81
.82	1.3560754	1.3576944	1.3594029	1.3612026	1.3630956	1.3650839	1.3671700	1.3693564	1.3716463	1.3740427	1.3765496	.82
.83	1.3871683	1.3887491	1.3904170	1.3921738	1.3940214	1.3959617	1.3979969	1.4001297	1.4023627	1.4046990	1.4071420	.83
.84	1.4196816	1.4212243	1.4228519	1.4245660	1.4263685	1.4282611	1.4302460	1.4323256	1.4345024	1.4367792	1.4391593	.84
.85	1.4537877	1.4552924	1.4568798	1.4585514	1.4603089	1.4621541	1.4640890	1.4661158	1.4682368	1.4704547	1.4727726	.85
.86	1.4896930	1.4911598	1.4927070	1.4943362	1.4960489	1.4978468	1.4997318	1.5017060	1.5037715	1.5059309	1.5081870	.86
.87	1.5276484	1.5290771	1.5305842	1.5321708	1.5338386	1.5355892	1.5374243	1.5393459	1.5413561	1.5434572	1.5456518	.87
.88	1.5679622	1.5693527	1.5708193	1.5723632	1.5739859	1.5756890	1.5774741	1.5793430	1.5812978	1.5833405	1.5854737	.88
.89	1.6110201	1.6123720	1.6137978	1.6152986	1.6168758	1.6185310	1.6202657	1.6220816	1.6239806	1.6259648	1.6280362	.89
.90	1.6573135	1.6586263	1.6600107	1.6614678	1.6629991	1.6646058	1.6662895	1.6680518	1.6698945	1.6718194	1.6738287	.90
.91	1.7074831	1.7087560	1.7100982	1.7115109	1.7129953	1.7145527	1.7161845	1.7178923	1.7196777	1.7215425	1.7234887	.91
.92	1.7623868	1.7636189	1.7649179	1.7662850	1.7677213	1.7692282	1.7708068	1.7724588	1.7741857	1.7759891	1.7778709	.92
.93	1.8232132	1.8244030	1.8256573	1.8269773	1.8283640	1.8298186	1.8313424	1.8329369	1.8346033	1.8363434	1.8381588	.93
.94	1.8916795	1.8928250	1.8940327	1.8953034	1.8966382	1.8980384	1.8995049	1.9010393	1.9026428	1.9043169	1.9060632	.94
.95	1.9704075	1.9715061	1.9726642	1.9738828	1.9751627	1.9765051	1.9779110	1.9793818	1.9809186	1.9825230	1.9841962	.95
.96	2.0637129	2.0647608	2.0658653	2.0670273	2.0682478	2.0695277	2.0708681	2.0722702	2.0737350	2.0752640	2.0768585	.96
.97	2.1795176	2.1805087	2.1815532	2.1826521	2.1838062	2.1850163	2.1862836	2.1876089	2.1889935	2.1904384	2.1919451	.97
.98	2.3351392	2.3360631	2.3370367	2.3380609	2.3391365	2.3402642	2.3414449	2.3426797	2.3439695	2.3453153	2.3467184	.98
.99	2.5837662	2.5845999	2.5854784	2.5864025	2.5873728	2.5883900	2.5894549	2.5905684	2.5917313	2.5929445	2.5942092	.99

R = K * u ≤ 1, 0 ≤ c = v/u ≤ 1, K = P(K, c) where probability P = P(K, c), P \ c												
	.30	.31	.32	.33	.34	.35	.36	.37	.38	.39	.40	c/P
.01	0.0778142	0.0790907	0.0803471	0.0815841	0.0828028	0.0840038	0.0851880	0.0863559	0.0875084	0.0886459	0.0897691	.01
.02	0.1105552	0.1123548	0.1141262	0.1158707	0.1175896	0.1192839	0.1209546	0.1226028	0.1242292	0.1258349	0.1274204	.02
.03	0.1360355	0.1382322	0.1403950	0.1425253	0.1446247	0.1466944	0.1487356	0.1507496	0.1527373	0.1546999	0.1566381	.03
.04	0.1578236	0.1603514	0.1628406	0.1652929	0.1677100	0.1700934	0.1724444	0.1747644	0.1770545	0.1793159	0.1815497	.04
.05	0.1772967	0.1801125	0.1828860	0.1856190	0.1883133	0.1909704	0.1935920	0.1961793	0.1987338	0.2012566	0.2037490	.05
.06	0.1951590	0.1982318	0.2012592	0.2042430	0.2071851	0.2100873	0.2129511	0.2157780	0.2185695	0.2213269	0.2240514	.06
.07	0.21118281	0.2151339	0.2183915	0.2216031	0.2247705	0.2278955	0.2309799	0.2340251	0.2370326	0.2400039	0.2429402	.07
.08	0.2275756	0.2310949	0.2345638	0.2379845	0.2413590	0.2446891	0.2479764	0.2512227	0.2544294	0.2575980	0.2607299	.08
.09	0.2425901	0.2463066	0.2499710	0.2535853	0.2571517	0.2606719	0.2641477	0.2675808	0.2709727	0.2743249	0.2776387	.09
.10	0.2570092	0.2609089	0.2647549	0.2685496	0.2722948	0.2759924	0.2796442	0.2832520	0.2868171	0.2903412	0.2938257	.10
.11	0.2709368	0.2750072	0.2790230	0.2829863	0.2868989	0.2907629	0.2945799	0.2983517	0.3020797	0.3057656	0.3094107	.11
.12	0.2844539	0.2886841	0.2928589	0.2969803	0.3010503	0.3050708	0.3090434	0.3129698	0.3168515	0.3206901	0.3244870	.12
.13	0.2976252	0.3020051	0.3063292	0.3105994	0.3148177	0.3189857	0.3231052	0.3271778	0.3312050	0.3351883	0.3391292	.13
.14	0.3105034	0.3150239	0.3194884	0.3238988	0.3282569	0.3325644	0.3368229	0.3410340	0.3451992	0.3493200	0.3533977	.14
.15	0.3231325	0.3277849	0.3323816	0.3369242	0.3414144	0.3458539	0.3502442	0.3545867	0.3588831	0.3631346	0.3673427	.15
.16	0.3355493	0.3403257	0.3450468	0.3497142	0.3543293	0.3588938	0.3634091	0.3678766	0.3722977	0.3766738	0.3810062	.16
.17	0.3477855	0.3526783	0.3575165	0.3623016	0.3670349	0.3717179	0.3763519	0.3809382	0.3854781	0.3899730	0.3944241	.17
.18	0.3598686	0.3648704	0.3698189	0.3747150	0.3795601	0.3843553	0.3891020	0.3938013	0.3984545	0.4030628	0.4076273	.18
.19	0.3718224	0.3769264	0.3819784	0.3869792	0.3919299	0.3968316	0.4016853	0.4064922	0.4112533	0.4159698	0.4206428	.19
.20	0.3836682	0.3888678	0.3940169	0.3991162	0.4041667	0.4091691	0.4141245	0.4190336	0.4238977	0.4287176	0.4334943	.20
.21	0.3954252	0.4007137	0.4059537	0.4111457	0.4162902	0.4213880	0.4264397	0.4314462	0.4364083	0.4413268	0.4462028	.21
.22	0.4071103	0.4124814	0.4178063	0.4230852	0.4283184	0.4335062	0.4386492	0.4437481	0.4488036	0.4538163	0.4587872	.22
.23	0.4187392	0.4241867	0.4295907	0.4349508	0.4402672	0.4455399	0.4507694	0.4559560	0.4611003	0.4662030	0.4712645	.23
.24	0.4303263	0.4358441	0.4413212	0.4467571	0.4521515	0.4575042	0.4628153	0.4680851	0.4733138	0.4785021	0.4836503	.24
.25	0.4418846	0.4474667	0.4530114	0.4585176	0.4639848	0.4694125	0.4748006	0.4801491	0.4854580	0.4907278	0.4959587	.25
.26	0.4534265	0.4590670	0.4646736	0.4702449	0.4757798	0.4812778	0.4867382	0.4921609	0.4975459	0.5028931	0.5082028	.26
.27	0.4649636	0.4706566	0.4763195	0.4819506	0.4875483	0.4931117	0.4986399	0.5041326	0.5095894	0.5150102	0.5203949	.27
.28	0.4765067	0.4822464	0.4879601	0.4936457	0.4993012	0.5049253	0.5105170	0.5160753	0.5215999	0.5270903	0.5325464	.28
.29	0.4880662	0.4938466	0.4996057	0.5053406	0.5110491	0.5167293	0.5223798	0.5279996	0.5335879	0.5391441	0.5446678	.29
.30	0.4996517	0.5054673	0.5112663	0.5170454	0.5228018	0.5285334	0.5342385	0.5399156	0.5455636	0.5511818	0.5567695	.30
.31	0.5112728	0.5171178	0.5229512	0.5287693	0.5345689	0.5403473	0.5461025	0.5518327	0.5575365	0.5632129	0.5688611	.31
.32	0.5229386	0.5288072	0.5346697	0.5405217	0.5463595	0.5521802	0.5579811	0.5637602	0.5695159	0.5752468	0.5809517	.32
.33	0.5346578	0.5405444	0.5464305	0.5523113	0.5581826	0.5640408	0.5698831	0.5757070	0.5815106	0.5872921	0.5930503	.33
.34	0.5464391	0.5523378	0.5582422	0.5641467	0.5700465	0.5759378	0.5818171	0.5876817	0.5935292	0.5993577	0.6051656	.34
.35	0.5582907	0.5641961	0.5701133	0.5760364	0.5819599	0.5878795	0.5937915	0.5996926	0.6055801	0.6114518	0.6173058	.35
.36	0.5702208	0.5761272	0.5820520	0.5879885	0.5939309	0.5998743	0.6058145	0.6117480	0.6176716	0.6235827	0.6294793	.36
.37	0.5822377	0.5881394	0.5940663	0.6000112	0.6059676	0.6119302	0.6178943	0.6238559	0.6298116	0.6357585	0.6416940	.37
.38	0.5943491	0.6002406	0.6061644	0.6121125	0.6180780	0.6240552	0.6300388	0.6360244	0.6420082	0.6479870	0.6539579	.38
.39	0.6065631	0.6124388	0.6183541	0.6243004	0.6302702	0.6362573	0.6422559	0.6482613	0.6542693	0.6602761	0.6662788	.39
.40	0.6188874	0.6247419	0.6306434	0.6365828	0.6425521	0.6485444	0.6545537	0.6605746	0.6666027	0.6726338	0.6786646	.40
.41	0.6313299	0.6371578	0.6430403	0.6489677	0.6549316	0.6609245	0.6669400	0.6729722	0.6790164	0.6850679	0.6911232	.41
.42	0.6438984	0.6496944	0.6555527	0.6614631	0.6673406	0.6732456	0.6791427	0.6850421	0.6909182	0.69675863	0.7026623	.42
.43	0.6566007	0.6623596	0.6681886	0.6740770	0.6800155	0.6859956	0.6920101	0.6980522	0.7041162	0.7101969	0.7162900	.43
.44	0.6694447	0.6751614	0.6809560	0.6868175	0.6927360	0.6987028	0.7047100	0.7107506	0.7168184	0.7229078	0.7290141	.44
.45	0.6824384	0.6881078	0.6938630	0.6996927	0.7055866	0.7115354	0.7175308	0.7235656	0.7296329	0.7357272	0.7418430	.45
.46	0.6955897	0.7012070	0.7069180	0.7127110	0.7185755	0.7245016	0.7304809	0.7365054	0.7425683	0.7486632	0.7547847	.46
.47	0.7089067	0.7144673	0.7201293	0.7258809	0.7317112	0.7376101	0.7435687	0.7495787	0.7556329	0.7617245	0.7678477	.47
.48	0.7223977	0.7278969	0.7335054	0.7392110	0.7450025	0.7508696	0.7568030	0.7627942	0.7688354	0.7749197	0.7810408	.48
.49	0.7360710	0.7415046	0.7470550	0.7527100	0.7584582	0.7642890	0.7701928	0.7761608	0.7821848	0.7882577	0.7943727	.49
.50	0.7499351	0.7552990	0.7607871	0.7663871	0.7720875	0.7778775	0.7837473	0.7896877	0.7956903	0.8017476	0.8078527	.50

R = K * u ≤ 1, 0 ≤ c = v/u ≤ 1, P(K, c)												
P\c	.30	.31	.32	.33	.34	.35	.36	.37	.38	.39	.40	c/P
.50	0.7499351	0.7552990	0.7607871	0.7663871	0.7720875	0.7778775	0.7837473	0.7896877	0.7956903	0.8017476	0.8078527	.50
.51	0.7639988	0.7692891	0.7747108	0.7802514	0.7858996	0.7916445	0.7974759	0.8033844	0.8093614	0.8153991	0.8214902	.51
.52	0.7782709	0.7834841	0.7888354	0.7943126	0.7999044	0.8055998	0.8113884	0.8172607	0.8232079	0.8292218	0.8352949	.52
.53	0.7927606	0.7978934	0.8031706	0.8085806	0.8141118	0.8197534	0.8254950	0.8313269	0.8372401	0.8432260	0.8492770	.53
.54	0.8074776	0.8125268	0.8177265	0.8230654	0.8285321	0.8341159	0.8398063	0.8455935	0.8514684	0.8574222	0.8634471	.54
.55	0.8224314	0.8273944	0.8325135	0.8377777	0.8431761	0.8486980	0.8543331	0.8600716	0.8659040	0.8718216	0.8778162	.55
.56	0.8376324	0.8425068	0.8475422	0.8527285	0.8580549	0.8635112	0.8690870	0.8747725	0.8805583	0.8864355	0.8923959	.56
.57	0.8530911	0.8578748	0.8628240	0.8679292	0.8731803	0.8785671	0.8840797	0.8897083	0.8954435	0.9012762	0.9071982	.57
.58	0.8688187	0.8735098	0.8783706	0.8833919	0.8885644	0.8938783	0.8993240	0.9048917	0.9105721	0.9163564	0.9222359	.58
.59	0.8848269	0.8894240	0.8941942	0.8991291	0.9042200	0.9094577	0.9148328	0.9203358	0.9259577	0.9316893	0.9375223	.59
.60	0.9011279	0.9056300	0.9103078	0.9151541	0.9201607	0.9253190	0.9306200	0.9360547	0.9416140	0.9472892	0.9530716	.60
.61	0.9177347	0.9221409	0.9267251	0.9314807	0.9364005	0.9414765	0.9467003	0.9520631	0.9575561	0.9631708	0.9688986	.61
.62	0.9346611	0.9389711	0.9434605	0.9481238	0.9529546	0.9579457	0.9630890	0.9683765	0.9737997	0.9793501	0.9850194	.62
.63	0.9519220	0.9561356	0.9605295	0.9650991	0.9698390	0.9747426	0.9798027	0.9850116	0.9903614	0.9958438	1.0014507	.63
.64	0.9695330	0.9736505	0.9779483	0.9824232	0.9870704	0.9918844	0.9968587	1.0019860	1.0072590	1.0126698	1.0182104	.64
.65	0.9875112	0.9915329	0.9957346	1.0001139	1.0046672	1.0093897	1.0142757	1.0193186	1.0245116	1.0298472	1.0353180	.65
.66	1.0058748	1.0098015	1.0139072	1.0181906	1.0226488	1.0272782	1.0320736	1.0370296	1.0421395	1.0473966	1.0527938	.66
.67	1.0246436	1.0284763	1.0324865	1.0366736	1.0410361	1.0455709	1.0502740	1.0551405	1.0601646	1.0653400	1.0706601	.67
.68	1.0438392	1.0475791	1.0514944	1.0555854	1.0598516	1.0642908	1.0689000	1.0736748	1.0786105	1.0837012	1.0889408	.68
.69	1.0634851	1.0671336	1.0709548	1.0749502	1.0791199	1.0834627	1.0879765	1.0926578	1.0975026	1.1025057	1.1076616	.69
.70	1.0836070	1.0871656	1.0908940	1.0947942	1.0988675	1.1031134	1.1075307	1.1121169	1.1168686	1.1217815	1.1268507	.70
.71	1.1042331	1.1077036	1.1113403	1.1151464	1.1191235	1.1232723	1.1275923	1.1320820	1.1367387	1.1415589	1.1465384	.71
.72	1.1253947	1.1287787	1.1323254	1.1360382	1.1399197	1.1439714	1.1481936	1.1525856	1.1571457	1.1618711	1.1667583	.72
.73	1.1471261	1.1504257	1.1538838	1.1575047	1.1612914	1.1652462	1.1693703	1.1736638	1.1781258	1.1827544	1.1875467	.73
.74	1.1694658	1.1726827	1.1760541	1.1795844	1.1832773	1.1871358	1.1911617	1.1953561	1.1997189	1.2042489	1.2089442	.74
.75	1.1924565	1.1955927	1.1988791	1.2023202	1.2059205	1.2096833	1.2136114	1.2177064	1.2219690	1.2263990	1.2309952	.75
.76	1.2161460	1.2192035	1.2224066	1.2257603	1.2292692	1.2329373	1.2367679	1.2407634	1.2449252	1.2492540	1.2537493	.76
.77	1.2405884	1.2435690	1.2466906	1.2499585	1.2533775	1.2569519	1.2606857	1.2645818	1.2686425	1.2728691	1.2772620	.77
.78	1.2658444	1.2687499	1.2717919	1.2749757	1.2783062	1.2817882	1.2854260	1.2892250	1.2931825	1.2973062	1.3015954	.78
.79	1.2919833	1.2948154	1.2977796	1.3008809	1.3041245	1.3075154	1.3110582	1.3147570	1.3186152	1.3226355	1.3268200	.79
.80	1.3190841	1.3218446	1.3247325	1.3277530	1.3309114	1.3342125	1.3376614	1.3412625	1.3450198	1.3489366	1.3530156	.80
.81	1.3472379	1.3499280	1.3527413	1.3556827	1.3587573	1.3619701	1.3653263	1.3688307	1.3724876	1.3763008	1.3802737	.81
.82	1.3765496	1.3791709	1.3819110	1.3847747	1.3877670	1.3908930	1.3941578	1.3975664	1.4011235	1.4048334	1.4086999	.82
.83	1.4071420	1.4096956	1.4123639	1.4151513	1.4180628	1.4211033	1.4242780	1.4275919	1.4310499	1.4346569	1.4384169	.83
.84	1.4391593	1.4416462	1.4442437	1.4469562	1.4497882	1.4527445	1.4558303	1.4590506	1.4624105	1.4659149	1.4695685	.84
.85	1.4727726	1.4751935	1.4777213	1.4803599	1.4831135	1.4859869	1.4889850	1.4921128	1.4953754	1.4987779	1.5023253	.85
.86	1.5081870	1.5105427	1.5130015	1.5155670	1.5182433	1.5210348	1.5239462	1.5269825	1.5301487	1.5334499	1.5368914	.86
.87	1.5456518	1.5479426	1.5503329	1.5528260	1.5554257	1.5581361	1.5609618	1.5639074	1.5669780	1.5701786	1.5735145	.87
.88	1.5854737	1.5876998	1.5900217	1.5924427	1.5949663	1.5975963	1.6003369	1.6031926	1.6061682	1.6092687	1.6124993	.88
.89	1.6280362	1.6301974	1.6324511	1.6348001	1.6372477	1.6397975	1.6424534	1.6452196	1.6481007	1.6511014	1.6542269	.89
.90	1.6738287	1.6759245	1.6781095	1.6803862	1.6827576	1.6852271	1.6877983	1.6904750	1.6932617	1.6961627	1.6991831	.90
.91	1.7234887	1.7255184	1.7276338	1.7298374	1.7321320	1.7345207	1.7370066	1.7395935	1.7422854	1.7450864	1.7480013	.91
.92	1.7778709	1.7798330	1.7818775	1.7840068	1.7862233	1.7885299	1.7909296	1.7934256	1.7960217	1.7987219	1.8015303	.92
.93	1.8381588	1.8400514	1.8420230	1.8440760	1.8462125	1.8484351	1.8507466	1.8531500	1.8556486	1.8582460	1.8609463	.93
.94	1.9060632	1.9078834	1.9097793	1.9117530	1.9138065	1.9159421	1.9181624	1.9204702	1.9228684	1.9253603	1.9279496	.94
.95	1.9841962	1.9859400	1.9877561	1.9896461	1.9916122	1.9936565	1.9957811	1.9979887	2.0002819	2.0026637	2.0051372	.95
.96	2.0768585	2.0785199	2.0802498	2.0820499	2.0839921	2.0859681	2.0879802	2.0899905	2.0921714	2.0944357	2.0967862	.96
.97	2.1919451	2.1935147	2.1951488	2.1968489	2.1986166	2.2004537	2.2023621	2.2043437	2.2064007	2.2085355	2.2107506	.97
.98	2.3467184	2.3481799	2.3497012	2.3512836	2.3529286	2.3546377	2.3564127	2.3582552	2.3601673	2.3621510	2.3642084	.98
.99	2.5942092	2.5955263	2.5968969	2.5983223	2.5998037	2.6013425	2.6029401	2.6045980	2.6063179	2.6081015	2.6099507	.99

$P \setminus c$	.40	.41	.42	.43	.44	.45	.46	.47	.48	.49	.50	c/P
.01	0.0897691	0.0908785	0.0919745	0.0930577	0.0941284	0.0951872	0.0962344	0.0972704	0.0982955	0.0993100	0.1003144	.01
.02	0.1274204	0.1289867	0.1305343	0.1320639	0.1335762	0.1350718	0.1365510	0.1380146	0.1394630	0.1408967	0.1423160	.02
.03	0.1566381	0.1585530	0.1604454	0.1623160	0.1641657	0.1659950	0.1678046	0.1695953	0.1713675	0.1731218	0.1748589	.03
.04	0.1815497	0.1837569	0.1859383	0.1880949	0.1902276	0.1923371	0.1944242	0.1964896	0.1985339	0.2005578	0.2025620	.04
.05	0.2037490	0.2062120	0.2086467	0.2110539	0.2134347	0.2157900	0.2181204	0.2204269	0.2227102	0.2249709	0.2272097	.05
.06	0.2240514	0.2267441	0.2294063	0.2320388	0.2346428	0.2372191	0.2397687	0.2422922	0.2447907	0.2472647	0.2497151	.06
.07	0.2429402	0.2458427	0.2487127	0.2515511	0.2543592	0.2571377	0.2598878	0.2626101	0.2653057	0.2679752	0.2706195	.07
.08	0.2607299	0.2638262	0.2668882	0.2699171	0.2729139	0.2758797	0.2788154	0.2817219	0.2846001	0.2874509	0.2902751	.08
.09	0.2776387	0.2809156	0.2841567	0.2873631	0.2905361	0.2936767	0.2967858	0.2998644	0.3029134	0.3059338	0.3089262	.09
.10	0.2938257	0.2972718	0.3006808	0.3040540	0.3073925	0.3106973	0.3139695	0.3172100	0.3204198	0.3235998	0.3267508	.10
.11	0.3094107	0.3130163	0.3165837	0.3201142	0.3236089	0.3270689	0.3304952	0.3338889	0.3372508	0.3405820	0.3438831	.11
.12	0.3244870	0.3282435	0.3319610	0.3356405	0.3392833	0.3428905	0.3464632	0.3500022	0.3535087	0.3569835	0.3604276	.12
.13	0.3391292	0.3430289	0.3468888	0.3507100	0.3544937	0.3582410	0.3619530	0.3656307	0.3692750	0.3728869	0.3764672	.13
.14	0.3533977	0.3574337	0.3614292	0.3653854	0.3693035	0.3731845	0.3770296	0.3808397	0.3846158	0.3883588	0.3920697	.14
.15	0.3673427	0.3715085	0.3756334	0.3797186	0.3837651	0.3877740	0.3917465	0.3956834	0.3995859	0.4034547	0.4072908	.15
.16	0.3810062	0.3852961	0.3895447	0.3937531	0.3979226	0.4020541	0.4061487	0.4102074	0.4142312	0.4182208	0.4221774	.16
.17	0.3944241	0.3988325	0.4031995	0.4075261	0.4118135	0.4160627	0.4202746	0.4244453	0.4285907	0.4326968	0.4367693	.17
.18	0.4076273	0.4121492	0.4166296	0.4210695	0.4254701	0.4298323	0.4341570	0.4384454	0.4426982	0.4469164	0.4511008	.18
.19	0.4206428	0.4252733	0.4298624	0.4344111	0.4389204	0.4433913	0.4478247	0.4522216	0.4565828	0.4609091	0.4652016	.19
.20	0.4334943	0.4382288	0.4429222	0.4475753	0.4521892	0.4567647	0.4613028	0.4658043	0.4702701	0.4747010	0.4790979	.20
.21	0.4462028	0.4510370	0.4558304	0.4605839	0.4652983	0.4699746	0.4746136	0.4792160	0.4837829	0.4883149	0.4928128	.21
.22	0.4587872	0.4637169	0.4686063	0.4734562	0.4782674	0.4830407	0.4877770	0.4924770	0.4971144	0.5017712	0.5063669	.22
.23	0.4712645	0.4762857	0.4812671	0.4862097	0.4911140	0.4959809	0.5008110	0.5056051	0.5103640	0.5150884	0.5197789	.23
.24	0.4836503	0.4887589	0.4938287	0.4988603	0.5038542	0.5088112	0.5137319	0.5186170	0.5234672	0.5282832	0.5330656	.24
.25	0.4959587	0.5011511	0.5063055	0.5114225	0.5165027	0.5215465	0.5265546	0.5315266	0.5364661	0.5413707	0.5462422	.25
.26	0.5082028	0.5134753	0.5187108	0.5239098	0.5290728	0.5342003	0.5392927	0.5443506	0.5493745	0.5543651	0.5593229	.26
.27	0.5203949	0.5257438	0.5310569	0.5363346	0.5415773	0.5467852	0.5519589	0.5570988	0.5622054	0.5672792	0.5723206	.27
.28	0.5325464	0.5379680	0.5433553	0.5487085	0.5540276	0.5593130	0.5645651	0.5697842	0.5749707	0.5801250	0.5852476	.28
.29	0.5446678	0.5501588	0.5556169	0.5610422	0.5664348	0.5717947	0.5771223	0.5824178	0.5876815	0.5929138	0.5981151	.29
.30	0.5567695	0.5623263	0.5678519	0.5733462	0.5788091	0.5842406	0.5896409	0.5950101	0.6003484	0.6056562	0.6109338	.30
.31	0.5688611	0.5744802	0.5800701	0.5856302	0.5911603	0.5966605	0.6021307	0.6075710	0.6129814	0.6183622	0.6237136	.31
.32	0.5809517	0.5866299	0.5922806	0.5979034	0.6034979	0.6090639	0.6146013	0.6201100	0.6255899	0.6310413	0.6364643	.32
.33	0.5930503	0.5987841	0.6044925	0.6101749	0.6158308	0.6214598	0.6270616	0.6326361	0.6381831	0.6437027	0.6491949	.33
.34	0.6051656	0.6109515	0.6167144	0.6224533	0.6281676	0.6338568	0.6395204	0.6451581	0.6507697	0.6563551	0.6619143	.34
.35	0.6173058	0.6231405	0.6289546	0.6347470	0.6405168	0.6462633	0.6519860	0.6576843	0.6633581	0.6690070	0.6746308	.35
.36	0.6294793	0.6353594	0.6412215	0.6470642	0.6528865	0.6586876	0.6644667	0.6702231	0.6759565	0.6816666	0.6873529	.36
.37	0.6416940	0.6476161	0.6535229	0.6594129	0.6652848	0.6711377	0.6769704	0.6827825	0.6885731	0.6943419	0.7000885	.37
.38	0.6539579	0.6599185	0.6658668	0.6718010	0.6777196	0.6836214	0.6895052	0.6953702	0.7012157	0.7070410	0.7128456	.38
.39	0.6662788	0.6722746	0.6782611	0.6842363	0.6901986	0.6961465	0.7020787	0.7079941	0.7138920	0.7197714	0.7256318	.39
.40	0.6786646	0.6846920	0.6907135	0.6967267	0.7027208	0.7087208	0.7146987	0.7206620	0.7266097	0.7325410	0.7384550	.40
.41	0.6911232	0.6971788	0.7032318	0.7092798	0.7153205	0.7213521	0.7273729	0.7333815	0.7393767	0.7453574	0.7513227	.41
.42	0.7036623	0.7097426	0.7158239	0.7219034	0.7279788	0.7340480	0.7401090	0.7461602	0.7522004	0.7582282	0.7642426	.42
.43	0.7162900	0.7223913	0.7284975	0.7346055	0.7407125	0.7468162	0.7529147	0.7590060	0.7650886	0.7711611	0.7772223	.43
.44	0.7290141	0.7351330	0.7412607	0.7473937	0.7535293	0.7596647	0.7657978	0.7719265	0.7780490	0.7841638	0.7902696	.44
.45	0.7418430	0.7479757	0.7541214	0.7602763	0.7664373	0.7726014	0.7787663	0.7849296	0.7910895	0.7972442	0.8033922	.45
.46	0.7547847	0.7609277	0.7670879	0.7732613	0.7794445	0.7856343	0.7918281	0.7980234	0.8042181	0.8104102	0.8165981	.46
.47	0.7678477	0.7739973	0.7801685	0.7863570	0.7925592	0.7987717	0.8049915	0.8112160	0.8174428	0.8236698	0.8298952	.47
.48	0.7810408	0.7871932	0.7933718	0.7995720	0.8057950	0.8120220	0.8182649	0.8245157	0.8307719	0.8370313	0.8432918	.48
.49	0.7943727	0.8005242	0.8067065	0.8129151	0.8191454	0.8253938	0.8316567	0.8379311	0.8442141	0.8505032	0.8567963	.49
.50	0.8078527	0.8139993	0.8201818	0.8263951	0.8326346	0.8388961	0.8451760	0.8514710	0.8577779	0.8640942	0.8704174	.50

R = K * u ≤ 1, 0 ≤ c = v/u ≤ 1, K = K(P, c) where probability P = P(K, c), P \ c											
.40	.41	.42	.43	.44	.45	.46	.47	.48	.49	.50	c/P
.50	0.8078527	0.8139993	0.8201818	0.8263951	0.8326346	0.8388961	0.8451760	0.8514710	0.8577779	0.8640942	0.8704174
.51	0.8214902	0.8276281	0.8338070	0.8400215	0.8462666	0.8525381	0.8588319	0.8651444	0.8714725	0.8778133	0.8841641
.52	0.8352949	0.8414203	0.8475918	0.8538039	0.8600512	0.8663293	0.8726338	0.8789609	0.8853073	0.8916698	0.8980455
.53	0.8492770	0.8553859	0.8615463	0.8677523	0.8739983	0.8802796	0.8865915	0.8929302	0.8992919	0.9056733	0.9120714
.54	0.8634471	0.8695356	0.8756810	0.8818771	0.8881183	0.8943993	0.9007155	0.9070626	0.9134366	0.9198340	0.9262517
.55	0.8778162	0.8838803	0.8900068	0.8961894	0.9024220	0.9086993	0.9150164	0.9213686	0.9277519	0.9341624	0.9405969
.56	0.8923959	0.8984315	0.9045353	0.9106920	0.9169209	0.9231909	0.9295054	0.9358595	0.9422489	0.9486696	0.9551180
.57	0.9071982	0.9132014	0.9192784	0.9254223	0.9316268	0.9378859	0.9441943	0.9505469	0.9569392	0.9633670	0.9698265
.58	0.9222359	0.9282025	0.9342488	0.9403676	0.9465523	0.9527969	0.9590956	0.9654434	0.9718353	0.9782670	0.9847345
.59	0.9375223	0.9434484	0.9494599	0.9555496	0.9617107	0.9679369	0.9742224	0.9805618	0.9869500	0.9933824	0.9998548
.60	0.9530716	0.9589530	0.9649258	0.9709824	0.9771160	0.9833201	0.9895886	0.9959160	1.0022970	1.0087268	1.0152010
.61	0.9688986	0.9747314	0.9806613	0.9866809	0.9927830	0.9989611	1.0052089	1.0115207	1.0178909	1.0243147	1.0307874
.62	0.9850194	0.9907995	0.9966825	1.0026609	1.0087276	1.0148757	1.0210990	1.0273914	1.0337473	1.0401616	1.0466294
.63	1.0014507	1.0071741	1.0130062	1.0189394	1.0249666	1.0310808	1.0372756	1.0435448	1.0498827	1.0562839	1.0627434
.64	1.0182104	1.0238732	1.0296503	1.0355343	1.0415179	1.0475941	1.0537565	1.0599986	1.0663146	1.0726991	1.0791467
.65	1.0353180	1.0409162	1.0466343	1.0524650	1.0584009	1.0644350	1.0705609	1.0767719	1.0830623	1.0894262	1.0958583
.66	1.0527938	1.0583236	1.0639788	1.0697521	1.0756361	1.0816241	1.0877093	1.0938853	1.1001459	1.1064853	1.1128982
.67	1.0706601	1.0761178	1.0817061	1.0874179	1.0932460	1.0991836	1.1052240	1.1113607	1.1175875	1.1238982	1.1302882
.68	1.0889408	1.0943227	1.0998402	1.1054864	1.1112545	1.1171375	1.1231289	1.1292221	1.1354110	1.1416895	1.1480520
.69	1.1076616	1.1129642	1.1184072	1.1239839	1.1296876	1.1355118	1.1414499	1.1474954	1.1536420	1.1598838	1.1662150
.70	1.1268507	1.1320723	1.1374352	1.1429384	1.1485738	1.1543349	1.1602153	1.1662087	1.1723088	1.1785095	1.1848052
.71	1.1465384	1.1516723	1.1569550	1.1623808	1.1679438	1.1736376	1.1794560	1.1853928	1.1914419	1.1975972	1.2038528
.72	1.1667583	1.1718029	1.1770003	1.1823449	1.1878313	1.1934535	1.1992056	1.2050814	1.2110749	1.2171802	1.2233914
.73	1.1875467	1.1924993	1.1976079	1.2028677	1.2083112	1.2138199	1.2195011	1.2253113	1.2312447	1.2372953	1.2434575
.74	1.2089442	1.2138019	1.2188185	1.2239898	1.2293112	1.2347775	1.2403835	1.2461235	1.2519920	1.2579832	1.2640915
.75	1.2309952	1.2357555	1.2406771	1.2457565	1.2509895	1.2563716	1.2618979	1.2675362	1.2732920	1.2792890	1.2853385
.76	1.2537493	1.2584099	1.2632336	1.2682177	1.2733587	1.2786525	1.2840947	1.2896805	1.2954049	1.3012626	1.3072483
.77	1.2772620	1.2818207	1.2865439	1.2914296	1.2964749	1.3016763	1.3070301	1.3125318	1.3181768	1.3239602	1.3298769
.78	1.3015954	1.3060505	1.3106707	1.3154550	1.3204010	1.3255062	1.3307671	1.3361801	1.3417447	1.3474447	1.3532871
.79	1.3268200	1.3311697	1.3356848	1.3403648	1.3452083	1.3502134	1.3553772	1.3606967	1.3661681	1.3717873	1.3775499
.80	1.3530156	1.3572585	1.3616665	1.3662397	1.3709775	1.3758787	1.3809413	1.3861627	1.3915398	1.3970689	1.4027463
.81	1.3802737	1.3844088	1.3887079	1.3931719	1.3978011	1.4025949	1.4075521	1.4126708	1.4179485	1.4233822	1.4289685
.82	1.4086999	1.4127263	1.4169149	1.4212676	1.4257853	1.4304683	1.4353162	1.4403276	1.4455010	1.4508337	1.4563232
.83	1.4384169	1.4423338	1.4464108	1.4506502	1.4550539	1.4596229	1.4643575	1.4692573	1.4743212	1.4795475	1.4849342
.84	1.4695685	1.4733756	1.4773398	1.4814643	1.4857516	1.4902035	1.4948211	1.4996048	1.5045543	1.5096687	1.5149465
.85	1.5023253	1.5060222	1.5098728	1.5138809	1.5180496	1.5223816	1.5268787	1.5315420	1.5363722	1.5413690	1.5465317
.86	1.5368914	1.5404780	1.5442143	1.5481047	1.5521530	1.5563623	1.5607354	1.5652743	1.5699802	1.5748538	1.5798952
.87	1.5735145	1.5769907	1.5806123	1.5843839	1.5883099	1.5923941	1.5966400	1.6010503	1.6056271	1.6103719	1.6152856
.88	1.6124993	1.6158651	1.6193715	1.6230233	1.6268254	1.6307822	1.6348977	1.6391754	1.6436183	1.6482287	1.6530083
.89	1.6542269	1.6574823	1.6608729	1.6644040	1.6680807	1.6719078	1.6758899	1.6800313	1.6843355	1.6888058	1.6934446
.90	1.6991831	1.7023278	1.7056022	1.7090116	1.7125613	1.7162565	1.7201023	1.7241034	1.7282642	1.7325886	1.7370799
.91	1.7480013	1.7510348	1.7541922	1.7574787	1.7608998	1.7644609	1.7681673	1.7720243	1.7760368	1.7802094	1.7845463
.92	1.8015303	1.8044516	1.8074908	1.8106529	1.8139435	1.8173679	1.8209318	1.8246406	1.8284997	1.8325144	1.8366896
.93	1.8609463	1.8637536	1.8666727	1.8697084	1.8728659	1.8761506	1.8795682	1.8831243	1.8868247	1.8906749	1.8946804
.94	1.9279496	1.9306400	1.9334359	1.9363419	1.9393629	1.9425040	1.9457708	1.9491690	1.9527042	1.9563825	1.9602098
.95	2.0051372	2.0077061	2.0103742	2.0131456	2.0160249	2.0190168	2.0221267	2.0253600	2.0287225	2.0322200	2.0358587
.96	2.0967862	2.0992260	2.1017586	2.1043875	2.1071170	2.1099514	2.1128955	2.1159544	2.1191334	2.1224385	2.1258756
.97	2.2107506	2.2130488	2.2154330	2.2179065	2.2204728	2.2231357	2.2258996	2.2287689	2.2317486	2.2348440	2.2380608
.98	2.3642084	2.3663420	2.3685543	2.3708481	2.3732263	2.3756923	2.3782496	2.3809021	2.3836541	2.3865100	2.3894750
.99	2.6099507	2.6118673	2.6138537	2.6159120	2.6180447	2.6202543	2.6225439	2.6249164	2.6273753	2.6299240	2.6325668

$P \setminus c$	.50	.51	.52	.53	.54	.55	.56	.57	.58	.59	.60	c/P
.01	0.1003144	0.1013088	0.1022937	0.1032692	0.1042356	0.1051932	0.1061422	0.1070828	0.1080153	0.1089399	0.1098567	.01
.02	0.1423160	0.1437215	0.1451135	0.1464925	0.1478587	0.1492125	0.1505543	0.1518844	0.1532031	0.1545107	0.1558074	.02
.03	0.1748589	0.1765791	0.1782830	0.1799710	0.1816436	0.1833012	0.1849442	0.1865730	0.1881879	0.1897894	0.1913777	.03
.04	0.2025620	0.2045469	0.2065132	0.2084614	0.2103919	0.2123053	0.2142020	0.2160825	0.2179471	0.2197963	0.2216305	.04
.05	0.2272097	0.2294273	0.2316243	0.2338013	0.2359587	0.2380972	0.2402172	0.2423192	0.2444037	0.2464711	0.2485219	.05
.06	0.2497151	0.2521425	0.2545476	0.2569309	0.2592931	0.2616348	0.2639565	0.2662586	0.2685418	0.2708065	0.2730531	.06
.07	0.2706195	0.2732393	0.2758352	0.2784079	0.2809581	0.2834864	0.2859932	0.2884793	0.2909451	0.2933911	0.2958178	.07
.08	0.3089262	0.3118916	0.3148306	0.3177439	0.3206324	0.3234965	0.3263305	0.3291544	0.3319494	0.3347224	0.3374741	.08
.09	0.3267508	0.3298737	0.3329691	0.3360379	0.3390807	0.3420983	0.3450912	0.3480601	0.3510057	0.3539284	0.3568288	.09
.10	0.3438831	0.3471552	0.3503989	0.3536151	0.3568044	0.3599675	0.3631052	0.3662180	0.3693066	0.3723715	0.3754134	.10
.11	0.3604276	0.3638416	0.3672265	0.3705830	0.3739119	0.3772138	0.3804895	0.3837396	0.3869647	0.3901654	0.3933424	.11
.12	0.3764672	0.3800169	0.3835367	0.3870274	0.3904897	0.3939244	0.3973322	0.4007137	0.4040695	0.4074003	0.4107067	.12
.13	0.3920697	0.3957492	0.3993983	0.4030176	0.4066079	0.4101700	0.4137046	0.4172123	0.4206937	0.4241496	0.4275804	.13
.14	0.4072908	0.4110950	0.4148682	0.4186112	0.4223246	0.4260092	0.4296658	0.4332950	0.4368975	0.4404738	0.4440246	.14
.15	0.4221774	0.4261016	0.4299943	0.4338563	0.4376883	0.4414911	0.4452654	0.4490119	0.4527311	0.4564238	0.4600905	.15
.16	0.4367693	0.4408091	0.4448171	0.4487939	0.4527405	0.4566574	0.4605454	0.4644052	0.4682374	0.4720427	0.4758216	.16
.17	0.4511008	0.4552522	0.4593715	0.4634593	0.4675166	0.4715439	0.4755420	0.4795116	0.4834532	0.4873676	0.4912553	.17
.18	0.4652016	0.4694609	0.4736878	0.4778831	0.4820475	0.4861818	0.4902866	0.4943625	0.4984104	0.5024306	0.5064240	.18
.19	0.4790979	0.4834615	0.4877926	0.4920920	0.4963603	0.5005983	0.5048066	0.5089859	0.5131369	0.5172601	0.5213561	.19
.20	0.4928128	0.4972774	0.5017095	0.5061097	0.5104788	0.5148175	0.5191264	0.5234062	0.5276575	0.5318808	0.5360769	.20
.21	0.5063669	0.5109295	0.5154595	0.5199576	0.5244246	0.5288611	0.5332678	0.5376453	0.5419942	0.5463151	0.5506086	.21
.22	0.5197789	0.5244364	0.5290613	0.5336546	0.5382167	0.5427484	0.5472502	0.5517229	0.5561669	0.5605829	0.5649714	.22
.23	0.5330656	0.5378150	0.5425323	0.5472179	0.5518725	0.5564967	0.5610913	0.5656566	0.5701933	0.5747021	0.5791834	.23
.24	0.5462422	0.5510810	0.5558878	0.5606632	0.5654078	0.5701222	0.5748070	0.5794627	0.5840899	0.5886892	0.5932611	.24
.25	0.5593229	0.5642484	0.5691422	0.5740049	0.5788371	0.5836393	0.5884120	0.5931559	0.5978715	0.6025592	0.6072196	.25
.26	0.5723206	0.5773303	0.5823087	0.5872563	0.5921738	0.5970615	0.6019201	0.6067500	0.6115517	0.6163259	0.6210729	.26
.27	0.5852476	0.5903390	0.5953995	0.6004298	0.6054302	0.6104013	0.6153436	0.6202575	0.6251435	0.6300021	0.6348338	.27
.28	0.5981151	0.6032858	0.6084262	0.6135368	0.6186181	0.6236705	0.6286944	0.6336903	0.6386586	0.6435999	0.6485144	.28
.29	0.6109338	0.6161814	0.6213994	0.6265882	0.6317482	0.6368798	0.6419834	0.6470594	0.6521082	0.6571303	0.6621260	.29
.30	0.6237136	0.6290359	0.6343293	0.6395942	0.6448309	0.6500397	0.6552211	0.6603753	0.6655028	0.6706040	0.6756791	.30
.31	0.6364643	0.6418590	0.6472257	0.6525645	0.6578759	0.6631600	0.6684172	0.6736479	0.6788523	0.6840308	0.6891839	.31
.32	0.6491949	0.6546598	0.6600976	0.6655084	0.6708924	0.6762499	0.6815812	0.6868865	0.6921662	0.6974205	0.7026497	.32
.33	0.6619143	0.6674472	0.6729540	0.6784347	0.6838895	0.6893185	0.6947221	0.7001003	0.7054535	0.7107819	0.7160859	.33
.34	0.6746308	0.6802296	0.6858033	0.6913520	0.6968756	0.7023744	0.7078484	0.7132979	0.7187230	0.7241240	0.7295011	.34
.35	0.6873529	0.6930154	0.6986540	0.7042686	0.7098592	0.7154258	0.7209686	0.7264877	0.7319831	0.7374551	0.7429039	.35
.36	0.7000885	0.7058127	0.7115141	0.7171927	0.7228483	0.7284811	0.7340909	0.7396778	0.7452420	0.7507835	0.7563025	.36
.37	0.7128456	0.7186292	0.7243914	0.7301320	0.7358509	0.7415480	0.7472231	0.7528763	0.7585077	0.7641172	0.7697050	.37
.38	0.7256318	0.7314728	0.7372938	0.7430945	0.7488748	0.7546344	0.7603732	0.7660910	0.7717880	0.7774641	0.7831192	.38
.39	0.7384550	0.7443512	0.7502289	0.7560879	0.7619276	0.7677480	0.7735487	0.7793297	0.7850907	0.7908318	0.7965530	.39
.40	0.7513227	0.7572720	0.7632044	0.7691196	0.7750171	0.7808965	0.7867575	0.7925998	0.7984234	0.8042282	0.8100139	.40
.41	0.7642426	0.7702428	0.7762280	0.7821975	0.7881507	0.7940874	0.8000069	0.8059092	0.8117938	0.8176607	0.8235096	.41
.42	0.7772223	0.7832713	0.7893071	0.7953290	0.8013362	0.8073283	0.8133048	0.8192653	0.8252094	0.8311370	0.8370477	.42
.43	0.7902696	0.7963652	0.8024496	0.8085218	0.8145812	0.8206270	0.8266587	0.8326758	0.8386779	0.8446647	0.8506358	.43
.44	0.8033922	0.8095322	0.8156631	0.8217837	0.8278933	0.8339910	0.8400762	0.8461483	0.8522069	0.8582514	0.8642817	.44
.45	0.8165981	0.8227803	0.8289554	0.8351225	0.8412803	0.8474281	0.8535651	0.8596907	0.8658041	0.8719050	0.8779929	.45
.46	0.8298952	0.8361173	0.8423347	0.8485461	0.8547503	0.8609464	0.8671335	0.8733107	0.8794775	0.8856332	0.8917774	.46
.47	0.8432918	0.8495515	0.8558090	0.8620626	0.8683113	0.8745538	0.8807892	0.8870165	0.8932351	0.8994442	0.9056432	.47
.48	0.8567963	0.8630914	0.8693866	0.8756805	0.8819716	0.8882586	0.8945405	0.9008162	0.9070850	0.9133459	0.9195984	.48
.49	0.8704174	0.8767454	0.8830763	0.8894082	0.8957397	0.9020693	0.9083959	0.9147184	0.9210356	0.9273469	0.9336514	.49
.50												.50

$K = K(P, c)$ where probability $P = P(K, c)$, $0 \leq c = v/u \leq 1$, $R = K * u$

$P \setminus c$	$K = K(P, c)$ where probability $P = P(K, c)$, $0 \leq c = v/u \leq 1$, $R = K * u$										c/P
	.50	.51	.52	.53	.54	.55	.56	.57	.58	.59	.60
.50	0.8704174	0.8767454	0.8830763	0.8894082	0.8957397	0.9020693	0.9083959	0.9147184	0.9210356	0.9273469	0.9336514
.51	0.8841641	0.8905226	0.8968867	0.9032545	0.9096243	0.9159947	0.9223641	0.9287315	0.9350957	0.9414557	0.9478108
.52	0.8980455	0.9044321	0.9108271	0.9172286	0.9236347	0.9300437	0.9364541	0.9428647	0.9492741	0.9556814	0.9620854
.53	0.9120714	0.9184835	0.9249070	0.9313399	0.9377788	0.9442257	0.9506753	0.9571272	0.9635801	0.9700329	0.9764846
.54	0.9262517	0.9326867	0.9391364	0.9455983	0.9520704	0.9585506	0.9650372	0.9715286	0.9780234	0.9845201	0.9910177
.55	0.9405969	0.9470522	0.9535254	0.9600141	0.9665158	0.9730284	0.9795501	0.9860791	0.9926139	0.9991529	1.0056949
.56	0.9551180	0.9615909	0.9680851	0.9745980	0.9811270	0.9876699	0.9942246	1.0007892	1.0073621	1.0139417	1.0205265
.57	0.9698265	0.9763141	0.9828267	0.9893613	0.9959152	1.0024861	1.0090717	1.0156700	1.0222791	1.0288975	1.0355234
.58	0.9847345	0.9912340	0.9977622	1.0043159	1.0108924	1.0174889	1.0241032	1.0307376	1.0373765	1.0440318	1.0506972
.59	0.9998548	1.0063633	1.0129043	1.0194745	1.0260709	1.0326907	1.0393315	1.0459908	1.0526665	1.0593568	1.0660598
.60	1.0152010	1.0217154	1.0282663	1.0348503	1.0414640	1.0481047	1.0547695	1.0614560	1.0681620	1.0748854	1.0816242
.61	1.0307874	1.0373047	1.0438625	1.0504574	1.0570858	1.0637447	1.0704312	1.0771427	1.0838768	1.0906312	1.0974039
.62	1.0466294	1.0531463	1.0597080	1.0663108	1.0729511	1.0796256	1.0863313	1.0930654	1.0998253	1.1066087	1.1134135
.63	1.0627434	1.0692565	1.0758190	1.0824267	1.0890760	1.0957633	1.1024856	1.1092398	1.1160233	1.1228335	1.1296682
.64	1.0791467	1.0856528	1.0922126	1.0988221	1.1054774	1.1121748	1.1189110	1.1256828	1.1324874	1.1393222	1.1461846
.65	1.0958583	1.1023536	1.1089075	1.1155156	1.1221737	1.1288782	1.1356255	1.1424122	1.1492355	1.1560924	1.1629804
.66	1.1128982	1.1193792	1.1259236	1.1325269	1.1391847	1.1458932	1.1526486	1.1594475	1.1662868	1.1731634	1.1800747
.67	1.1302882	1.1367512	1.1432825	1.1498774	1.1565316	1.1632408	1.1700014	1.1768096	1.1836621	1.1905559	1.1974880
.68	1.1480520	1.1544930	1.1610074	1.1675903	1.1742373	1.1809441	1.1877066	1.1945210	1.2013840	1.2082922	1.2152426
.69	1.1662150	1.1726300	1.1791236	1.1856909	1.1923271	1.1990278	1.2057889	1.2126065	1.2194769	1.2263967	1.2333627
.70	1.1848052	1.1911900	1.1976588	1.2042064	1.2108280	1.2175191	1.2242754	1.2310927	1.2379674	1.2448958	1.2518747
.71	1.2038528	1.2102032	1.2166430	1.2231669	1.2297700	1.2364476	1.2431954	1.2500090	1.2568847	1.2638186	1.2708072
.72	1.2233914	1.2297029	1.2361092	1.2426052	1.2491856	1.2558458	1.2625813	1.2693876	1.2762607	1.2831967	1.2901921
.73	1.2434575	1.2497255	1.2560939	1.2625574	1.2691109	1.2757496	1.2824686	1.2892637	1.2961306	1.3030653	1.3100641
.74	1.2640915	1.2703113	1.2766371	1.2830636	1.2895857	1.2961984	1.3028968	1.3096766	1.3165334	1.3234631	1.3304617
.75	1.2853385	1.2915051	1.2977834	1.3041681	1.3106540	1.3172361	1.3239096	1.3306698	1.3375124	1.3444330	1.3514277
.76	1.3072483	1.3133567	1.3195825	1.3259203	1.3323651	1.3389118	1.3455556	1.3522917	1.3591156	1.3660231	1.3730099
.77	1.3298769	1.3359218	1.3420898	1.3483755	1.3547740	1.3612803	1.3678893	1.3745965	1.3813972	1.3882870	1.3952617
.78	1.3532871	1.3592631	1.3653678	1.3715960	1.3779428	1.3844032	1.3909724	1.3976455	1.4044180	1.4112854	1.4182434
.79	1.3775499	1.3834515	1.3894872	1.3956521	1.4019415	1.4083505	1.4148742	1.4215078	1.4282469	1.4350867	1.4420231
.80	1.4027463	1.4085676	1.4145284	1.4206241	1.4268501	1.4332016	1.4396740	1.4462623	1.4529623	1.4597692	1.4666787
.81	1.4289685	1.4347036	1.4405834	1.4466037	1.4527600	1.4590478	1.4654625	1.4719995	1.4786543	1.4854223	1.4922992
.82	1.4563232	1.4619660	1.4677585	1.4736968	1.4797768	1.4859942	1.4923446	1.4988236	1.5054268	1.5121496	1.5189878
.83	1.4849342	1.4904783	1.4961769	1.5020264	1.5080231	1.5141631	1.5204421	1.5268561	1.5334006	1.5400714	1.5468641
.84	1.5149465	1.5203855	1.5259833	1.5317368	1.5376429	1.5436979	1.5498981	1.5562394	1.5627178	1.5693291	1.5760691
.85	1.5465317	1.5518590	1.5573488	1.5629990	1.5688067	1.5747688	1.5808819	1.5871424	1.5935465	1.6000902	1.6067696
.86	1.5798952	1.5851038	1.5904784	1.5960173	1.6017184	1.6075791	1.6135965	1.6197674	1.6260883	1.6325556	1.6391656
.87	1.6152856	1.6203685	1.6256201	1.6310396	1.6366254	1.6423756	1.6482879	1.6543596	1.6605877	1.6669690	1.6734999
.88	1.6530083	1.6579582	1.6630789	1.6683702	1.6738315	1.6794616	1.6852587	1.6912209	1.6973455	1.7036300	1.7100712
.89	1.6934446	1.6982541	1.7032354	1.7083895	1.7137165	1.7192160	1.7248870	1.7307282	1.7367379	1.7429137	1.7492531
.90	1.7370799	1.7417412	1.7465746	1.7515818	1.7567639	1.7621215	1.7676546	1.7733624	1.7792441	1.7852980	1.7915223
.91	1.7845463	1.7890513	1.7937274	1.7985775	1.8036036	1.8088071	1.8141890	1.8197497	1.8254890	1.8314061	1.8375000
.92	1.8366896	1.8410297	1.8455389	1.8502208	1.8550786	1.8601146	1.8653314	1.8707290	1.8763096	1.8820730	1.8880191
.93	1.8946804	1.8988466	1.9031783	1.9076800	1.9123560	1.9172097	1.9222443	1.9274623	1.9328656	1.9384558	1.9442336
.94	1.9602098	1.9641918	1.9683342	1.9726425	1.9771215	1.9817761	1.9866104	1.9916283	1.9968328	2.0022267	2.0078122
.95	2.0358587	2.0396448	2.0435844	2.0476836	2.0519484	2.0563843	2.0609968	2.0657907	2.0707707	2.0759408	2.0813045
.96	2.1258756	2.1294510	2.1331712	2.1370426	2.1410718	2.1452653	2.1496294	2.1541704	2.1589431	2.1638057	2.1689106
.97	2.2380608	2.2414050	2.2448830	2.2485014	2.2522670	2.2561869	2.2602682	2.2645179	2.2689440	2.2735506	2.2783472
.98	2.3894750	2.3925544	2.3957541	2.3990803	2.4025396	2.4061391	2.4098859	2.4137879	2.4178527	2.4220883	2.4265028
.99	2.6325668	2.6353077	2.6381517	2.6411039	2.6441699	2.6473557	2.6506681	2.6541141	2.6577013	2.6614378	2.6653323

$P \setminus c$	.60	.61	.62	.63	.64	.65	.66	.67	.68	.69	.70	c/P
.01	0.1098567	0.1107660	0.1116679	0.1125626	0.1134503	0.1143312	0.1152054	0.1160730	0.1169343	0.1177893	0.1186382	.01
.02	0.1558074	0.1570935	0.1583694	0.1596351	0.1608911	0.1621374	0.1633744	0.1646022	0.1658210	0.1670310	0.1682325	.02
.03	0.1913777	0.1929532	0.1945161	0.1960669	0.1976057	0.1991328	0.2006486	0.2021532	0.2036469	0.2051300	0.2066027	.03
.04	0.2216305	0.2234500	0.2252551	0.2270463	0.2288239	0.2305881	0.2323392	0.2340777	0.2358037	0.2375174	0.2392193	.04
.05	0.2485219	0.2505565	0.2525751	0.2545784	0.2565665	0.2585398	0.2604987	0.2624435	0.2643744	0.2662919	0.2681962	.05
.06	0.2730531	0.2752822	0.2774940	0.2796890	0.2818677	0.2840303	0.2861772	0.2883089	0.2904256	0.2925276	0.2946153	.06
.07	0.2958178	0.2982257	0.3006152	0.3029867	0.3053408	0.3076777	0.3099979	0.3123017	0.3145894	0.3168615	0.3191183	.07
.08	0.3172021	0.3197765	0.3223314	0.3248674	0.3273849	0.3298842	0.3323658	0.3348301	0.3372774	0.3397082	0.3421227	.08
.09	0.3374741	0.3402049	0.3429153	0.3456058	0.3482768	0.3509288	0.3535623	0.3561775	0.3587750	0.3613551	0.3639181	.09
.10	0.3568288	0.3597075	0.3625649	0.3654016	0.3682181	0.3710147	0.3737919	0.3765502	0.3792899	0.3820115	0.3847154	.10
.11	0.3754134	0.3784328	0.3814301	0.3844059	0.3873607	0.3902950	0.3932092	0.3961037	0.3989790	0.4018355	0.4046735	.11
.12	0.3933424	0.3964961	0.3996270	0.4027359	0.4058230	0.4088889	0.4119341	0.4149590	0.4179641	0.4209497	0.4239163	.12
.13	0.4107067	0.4139892	0.4172484	0.4204848	0.4236989	0.4268912	0.4300622	0.4332124	0.4363421	0.4394518	0.4425420	.13
.14	0.4275804	0.4309868	0.4343693	0.4377285	0.4410649	0.4443789	0.4476711	0.4509419	0.4541918	0.4574212	0.4606305	.14
.15	0.4440246	0.4475505	0.4510520	0.4545296	0.4579840	0.4614156	0.4648248	0.4682122	0.4715782	0.4749233	0.4782479	.15
.16	0.4600905	0.4637318	0.4673484	0.4709406	0.4745091	0.4780545	0.4815770	0.4850774	0.4885559	0.4920131	0.4954494	.16
.17	0.4758216	0.4795747	0.4833027	0.4870060	0.4906852	0.4943409	0.4979734	0.5015833	0.5051710	0.5087371	0.5122819	.17
.18	0.4912553	0.4951169	0.4989530	0.5027641	0.5065508	0.5103136	0.5140530	0.5177694	0.5214634	0.5251353	0.5287857	.18
.19	0.5064240	0.5103910	0.5143322	0.5182481	0.5221394	0.5260065	0.5298498	0.5336700	0.5374674	0.5412426	0.5449958	.19
.20	0.5213561	0.5254256	0.5294691	0.5334872	0.5374803	0.5414489	0.5453937	0.5493150	0.5532133	0.5570891	0.5609429	.20
.21	0.5360769	0.5402462	0.5443894	0.5485069	0.5525993	0.5566671	0.5607108	0.5647308	0.5687277	0.5727019	0.5766538	.21
.22	0.5506086	0.5548753	0.5591156	0.5633302	0.5675195	0.5716841	0.5758245	0.5799411	0.5840343	0.5881047	0.5921527	.22
.23	0.5649714	0.5693330	0.5736683	0.5779777	0.5822617	0.5865210	0.5907558	0.5949668	0.5991544	0.6033190	0.6074611	.23
.24	0.5791834	0.5836377	0.5880657	0.5924678	0.5968445	0.6011963	0.6055237	0.6098272	0.6141072	0.6183641	0.6225984	.24
.25	0.5932611	0.5978060	0.6023247	0.6068174	0.6112848	0.6157273	0.6201454	0.6245395	0.6289101	0.6332576	0.6375824	.25
.26	0.6072196	0.6118532	0.6164605	0.6210421	0.6255983	0.6301296	0.6346365	0.6391195	0.6435790	0.6480154	0.6524291	.26
.27	0.6210729	0.6257932	0.6304874	0.6351559	0.6397991	0.6444176	0.6490117	0.6535812	0.6581287	0.6626524	0.6671535	.27
.28	0.6348338	0.6396390	0.6444183	0.6491720	0.6539006	0.6586045	0.6632842	0.6679401	0.6725727	0.6771822	0.6817692	.28
.29	0.6485144	0.6534028	0.6582654	0.6631026	0.6679150	0.6727028	0.6774666	0.6822067	0.6869235	0.6916175	0.6962890	.29
.30	0.6621260	0.6670958	0.6720401	0.6769593	0.6818538	0.6867241	0.6915704	0.6963933	0.7011931	0.7059702	0.7107249	.30
.31	0.6756791	0.6807287	0.6857532	0.6907528	0.6957280	0.7006792	0.7056067	0.7105110	0.7153924	0.7202513	0.7250880	.31
.32	0.6891839	0.6943117	0.6994147	0.7044933	0.7095477	0.7145785	0.7195859	0.7245703	0.7295320	0.7344715	0.7393890	.32
.33	0.7026497	0.7078542	0.7130344	0.7181904	0.7233228	0.7284318	0.7335177	0.7385810	0.7436218	0.7486407	0.7536379	.33
.34	0.7160859	0.7213656	0.7266214	0.7318536	0.7370625	0.7422484	0.7474116	0.7525525	0.7576713	0.7627685	0.7678442	.34
.35	0.7295011	0.7348545	0.7401846	0.7454916	0.7507757	0.7560373	0.7612766	0.7664939	0.7716896	0.7768639	0.7820172	.35
.36	0.7429039	0.7483297	0.7537326	0.7591130	0.7644711	0.7698071	0.7751213	0.7804140	0.7856855	0.7909359	0.7961657	.36
.37	0.7563025	0.7617992	0.7672737	0.7727263	0.7781571	0.7835663	0.7889543	0.7943213	0.7996674	0.8049930	0.8102983	.37
.38	0.7697050	0.7752712	0.7808160	0.7863394	0.7918417	0.7973231	0.8027837	0.8082238	0.8136436	0.8190434	0.8244232	.38
.39	0.7831192	0.7887536	0.7943673	0.7999604	0.8055330	0.8110853	0.8166175	0.8221298	0.8276222	0.8330952	0.8385487	.39
.40	0.7965530	0.8022542	0.8079355	0.8135970	0.8192388	0.8248609	0.8304636	0.8360470	0.8416112	0.8471564	0.8526827	.40
.41	0.8100139	0.8157806	0.8215283	0.8272570	0.8329668	0.8386577	0.8443298	0.8499833	0.8556182	0.8612348	0.8668331	.41
.42	0.8235096	0.8293405	0.8351533	0.8409481	0.8467247	0.8524832	0.8582238	0.8639464	0.8696512	0.8753382	0.8810076	.42
.43	0.8370477	0.8429415	0.8488182	0.8546777	0.8605201	0.8663452	0.8721532	0.8779440	0.8837177	0.8894743	0.8952140	.43
.44	0.8506358	0.8565912	0.8625305	0.8684537	0.8743607	0.8802514	0.8861257	0.8919837	0.8978254	0.9036508	0.9094600	.44
.45	0.8642817	0.8702973	0.8762980	0.8822837	0.8882541	0.8942093	0.9001490	0.9060733	0.9119821	0.9178755	0.9237534	.45
.46	0.8779929	0.8840674	0.8901283	0.8961753	0.9022081	0.9082267	0.9142309	0.9202205	0.9261956	0.9321560	0.9381019	.46
.47	0.8917774	0.8979096	0.9040294	0.9101365	0.9162306	0.9223115	0.9283791	0.9344332	0.9404736	0.9465004	0.9525134	.47
.48	0.9056432	0.9118317	0.9180091	0.9241751	0.9303294	0.9364715	0.9426017	0.9487193	0.9548242	0.9609165	0.9669959	.48
.49	0.9195984	0.9258418	0.9320756	0.9382994	0.9445127	0.9507153	0.9569068	0.9630869	0.9692556	0.9754125	0.9815576	.49
.50	0.9336514	0.9399484	0.9462373	0.9525177	0.9587889	0.9650507	0.9713027	0.9775445	0.9837759	0.9899967	0.9962067	.50

$P \setminus c$	.60	.61	.62	.63	.64	.65	.66	.67	.68	.69	.70	c/P
.50	0.9336514	0.9399484	0.9462373	0.9525177	0.9587889	0.9650507	0.9713027	0.9775445	0.9837759	0.9899967	0.9962067	.50
.51	0.9478108	0.9541600	0.9605028	0.9668384	0.9731665	0.9794864	0.9857978	0.9921004	0.9983938	1.0046777	1.0109519	.51
.52	0.9620854	0.9684855	0.9748808	0.9812705	0.9876542	0.9940312	1.0004012	1.0067635	1.0131180	1.0194642	1.0258019	.52
.53	0.9764846	0.9829340	0.9893805	0.9958231	1.0022613	1.0086943	1.0151217	1.0215429	1.0279576	1.0343653	1.0407657	.53
.54	0.9910177	0.9975152	1.0040114	1.0105056	1.0169971	1.0234850	1.0299688	1.0364480	1.0429220	1.0493904	1.0558528	.54
.55	1.0056949	1.0122388	1.0187835	1.0253280	1.0318715	1.0384132	1.0449524	1.0514886	1.0580210	1.0645492	1.0710729	.55
.56	1.0205265	1.0271153	1.0337070	1.0403005	1.0468949	1.0534892	1.0600828	1.0666748	1.0732648	1.0798521	1.0864363	.56
.57	1.0355234	1.0421557	1.0487929	1.0554300	1.0620779	1.0687237	1.0753705	1.0820176	1.0886642	1.0953097	1.1019535	.57
.58	1.0506972	1.0573712	1.0640525	1.0707398	1.0774319	1.0841280	1.0908269	1.0975279	1.1042302	1.1109331	1.1176359	.58
.59	1.0660598	1.0727740	1.0794977	1.0862298	1.0929689	1.0997140	1.1064639	1.1132179	1.1199749	1.1267342	1.1334952	.59
.60	1.0816242	1.0883768	1.0951415	1.1019168	1.1087015	1.1154943	1.1222941	1.1290998	1.1359106	1.1427255	1.1495439	.60
.61	1.0974039	1.1041932	1.1109971	1.1178142	1.1246430	1.1314822	1.1383306	1.1451871	1.1520506	1.1589202	1.1657951	.61
.62	1.1134135	1.1202375	1.1270790	1.1339362	1.1408077	1.1476920	1.1545877	1.1614937	1.1684089	1.1753323	1.1822628	.62
.63	1.1296682	1.1365251	1.1434023	1.1502981	1.1572107	1.1641386	1.1710804	1.1780348	1.1850006	1.1919767	1.1989620	.63
.64	1.1461846	1.1530724	1.1599836	1.1669161	1.1738682	1.1808383	1.1878248	1.1948263	1.2018416	1.2088694	1.2159087	.64
.65	1.1629804	1.1698971	1.1768402	1.1838077	1.1907977	1.1978084	1.2048381	1.2118855	1.2189491	1.2260275	1.2331198	.65
.66	1.1800747	1.1870181	1.1939911	1.2009917	1.2080178	1.2150675	1.2221390	1.2292309	1.2363415	1.2434696	1.2506138	.66
.67	1.1974880	1.2044558	1.2114567	1.2184883	1.2255487	1.2326357	1.2397475	1.2468824	1.2540389	1.2612153	1.2684104	.67
.68	1.2152426	1.2222324	1.2292589	1.2363196	1.2434123	1.2505348	1.2576853	1.2648618	1.2720626	1.2792863	1.2865312	.68
.69	1.2333627	1.2403720	1.2474217	1.2545093	1.2616323	1.2687885	1.2759758	1.2831923	1.2904362	1.2977057	1.3049993	.69
.70	1.2518747	1.2589008	1.2659713	1.2730834	1.2802346	1.2874225	1.2946449	1.3018997	1.3091850	1.3164991	1.3238402	.70
.71	1.2708072	1.2778474	1.2849360	1.2920703	1.2992474	1.3064648	1.3137204	1.3210118	1.3283370	1.3356941	1.3430814	.71
.72	1.2901921	1.2972434	1.3043474	1.3115011	1.3187017	1.3259465	1.3332331	1.3405592	1.3479226	1.3553213	1.3627534	.72
.73	1.3100641	1.3171233	1.3242398	1.3314102	1.3386317	1.3459015	1.3532170	1.3605758	1.3679755	1.3754141	1.3828895	.73
.74	1.3304617	1.3375256	1.3446513	1.3518356	1.3590753	1.3663675	1.3737096	1.3810988	1.3885329	1.3960096	1.4035268	.74
.75	1.3514277	1.3584927	1.3656244	1.3728193	1.3800743	1.3873862	1.3947522	1.4021697	1.4096361	1.4171490	1.4247062	.75
.76	1.3730099	1.3800722	1.3872062	1.3944085	1.4016755	1.4090042	1.4163915	1.4238347	1.4313311	1.4388782	1.4464736	.76
.77	1.3952617	1.4023173	1.4094498	1.4166557	1.4239314	1.4312737	1.4386794	1.4461457	1.4536696	1.4612485	1.4688801	.77
.78	1.4182434	1.4252878	1.4324147	1.4396204	1.4469012	1.4542536	1.4616745	1.4691608	1.4767096	1.4843180	1.4919835	.78
.79	1.4420231	1.4490517	1.4561686	1.4633698	1.4706516	1.4780106	1.4854432	1.4929464	1.5005170	1.5081522	1.5158493	.79
.80	1.4666787	1.4736864	1.4807884	1.4879806	1.4952592	1.5026205	1.5100611	1.5175776	1.5251669	1.5328260	1.5405520	.80
.81	1.4922992	1.4992807	1.5063625	1.5135407	1.5208113	1.5281706	1.5356150	1.5431410	1.5507455	1.5584251	1.5661771	.81
.82	1.5189878	1.5259369	1.5329929	1.5401516	1.5474091	1.5547615	1.5622051	1.5697364	1.5773520	1.5850487	1.5928234	.82
.83	1.5468641	1.5537746	1.5607985	1.5679317	1.5751703	1.5825104	1.5899482	1.5974801	1.6051025	1.6128122	1.6206059	.83
.84	1.5760691	1.5829337	1.5899187	1.5970199	1.6042334	1.6115552	1.6189815	1.6265087	1.6341330	1.6418511	1.6496597	.84
.85	1.6067696	1.6135806	1.6205190	1.6275809	1.6347623	1.6420592	1.6494678	1.6569842	1.6646049	1.6723264	1.6801451	.85
.86	1.6391656	1.6459143	1.6527979	1.6598124	1.6669538	1.6742183	1.6816020	1.6891011	1.6967119	1.7044308	1.7122544	.86
.87	1.6734999	1.6801769	1.6869962	1.6939542	1.7010469	1.7082705	1.7156213	1.7230954	1.7306891	1.7383988	1.7462210	.87
.88	1.7100712	1.7166658	1.7234105	1.7303016	1.7373356	1.7445088	1.7518174	1.7592577	1.7668261	1.7745189	1.7823325	.88
.89	1.7492531	1.7557535	1.7624116	1.7692243	1.7761882	1.7832999	1.7905557	1.7979521	1.8054855	1.8131523	1.8209489	.89
.90	1.7915223	1.7979148	1.8044729	1.8111938	1.8180745	1.8251118	1.8323025	1.8396430	1.8471301	1.8547602	1.8625297	.90
.91	1.8375000	1.8437692	1.8502117	1.8568253	1.8636075	1.8705554	1.8776663	1.8849369	1.8923640	1.8999444	1.9076747	.91
.92	1.8880191	1.8941471	1.9004559	1.9069439	1.9136094	1.9204501	1.9274636	1.9346471	1.9419979	1.9495129	1.9571890	.92
.93	1.9424336	1.9501993	1.9583530	1.9669208	1.9759325	1.9853925	1.9949027	1.9999027	1.9971567	2.0045867	2.0121899	.93
.94	2.0078122	2.0135906	2.0195631	2.0257302	2.0320919	2.0386477	2.0453968	2.0523378	2.0594692	2.0667890	2.0742951	.94
.95	2.0813045	2.0868647	2.0926240	2.0985842	2.1047467	2.1111122	2.1176811	2.1244532	2.1314280	2.1386044	2.1459811	.95
.96	2.1689106	2.1742133	2.1797179	2.1854279	2.1913465	2.1974759	2.2038182	2.2103746	2.2171461	2.2241330	2.2313351	.96
.97	2.2683472	2.2833391	2.2885324	2.2939325	2.2995445	2.3053731	2.3114221	2.3176950	2.3241947	2.3309235	2.3378830	.97
.98	2.4265028	2.4311041	2.4359003	2.4408990	2.4461076	2.4515335	2.4571831	2.4630629	2.4691785	2.4755351	2.4821374	.98
.99	2.6653323	2.6693935	2.6736310	2.6780544	2.6826734	2.6874982	2.6925386	2.6978047	2.7033064	2.7090531	2.7150540	.99

$R = K * u \leq 1$, $0 \leq c = v/u \leq 1$, $R = K * u$												
$P \backslash c$	.70	.71	.72	.73	.74	.75	.76	.77	.78	.79	.80	c/P
.01	0.1186382	0.1194811	0.1203181	0.1211494	0.1219750	0.1227952	0.1236100	0.1244194	0.1252237	0.1260228	0.1268170	.01
.02	0.1682325	0.1694256	0.1706104	0.1717872	0.1729561	0.1741173	0.1752709	0.1764170	0.1775559	0.1786877	0.1798124	.02
.03	0.2066027	0.2080652	0.2095177	0.2109604	0.2123935	0.2138173	0.2152318	0.2166373	0.2180340	0.2194220	0.2208015	.03
.04	0.2392193	0.2409095	0.2425883	0.2442558	0.2459124	0.2475583	0.2491936	0.2508186	0.2524335	0.2540384	0.2556336	.04
.05	0.2681962	0.2700875	0.2719662	0.2738325	0.2756866	0.2775288	0.2793594	0.2811785	0.2829863	0.2847832	0.2865692	.05
.06	0.2946153	0.2966890	0.2987489	0.3007954	0.3028286	0.3048490	0.3068567	0.3088519	0.3108350	0.3128061	0.3147654	.06
.07	0.3191183	0.3213601	0.3235872	0.3257998	0.3279984	0.3301831	0.3323542	0.3345121	0.3366569	0.3387889	0.3409084	.07
.08	0.3421227	0.3445213	0.3469044	0.3492722	0.3516251	0.3539633	0.3562872	0.3585970	0.3608930	0.3631755	0.3654446	.08
.09	0.3639181	0.3664645	0.3689945	0.3715085	0.3740068	0.3764897	0.3789576	0.3814106	0.3838492	0.3862735	0.3886839	.09
.10	0.3847154	0.3874018	0.3900712	0.3927238	0.3953602	0.3979804	0.4005850	0.4031741	0.4057480	0.4083072	0.4108517	.10
.11	0.4046735	0.4074935	0.4102958	0.4130808	0.4158488	0.4186002	0.4213352	0.4240542	0.4267575	0.4294454	0.4321181	.11
.12	0.4239163	0.4268642	0.4297939	0.4327057	0.4355999	0.4384770	0.4413371	0.4441808	0.4470081	0.4498196	0.4526154	.12
.13	0.4425420	0.4456130	0.4486651	0.4516989	0.4547146	0.4577126	0.4606933	0.4636569	0.4666038	0.4695343	0.4724488	.13
.14	0.4606305	0.4638202	0.4669906	0.4701421	0.4732751	0.4763899	0.4794869	0.4825665	0.4856289	0.4886745	0.4917036	.14
.15	0.4782479	0.4815524	0.4848371	0.4881026	0.4913491	0.4945771	0.4977868	0.5009787	0.5041530	0.5073101	0.5104504	.15
.16	0.4954494	0.4988651	0.5022608	0.5056368	0.5089935	0.5123313	0.5156505	0.5189514	0.5222345	0.5255000	0.5287482	.16
.17	0.5122819	0.5158058	0.5193093	0.5227928	0.5262566	0.5297012	0.5331268	0.5365339	0.5399228	0.5432938	0.5466473	.17
.18	0.5287857	0.5324149	0.5360234	0.5396116	0.5431798	0.5467284	0.5502579	0.5537685	0.5572606	0.5607345	0.5641906	.18
.19	0.5449958	0.5487277	0.5524386	0.5561289	0.5597989	0.5634491	0.5670799	0.5706916	0.5742845	0.5778590	0.5814155	.19
.20	0.5609429	0.5647750	0.5685858	0.5723759	0.5761455	0.5798950	0.5836249	0.5873354	0.5910270	0.5946999	0.5983546	.20
.21	0.5766538	0.5805839	0.5844925	0.5883802	0.5922472	0.5960939	0.5999208	0.6037282	0.6075164	0.6112858	0.6150367	.21
.22	0.5921527	0.5961787	0.6001831	0.6041663	0.6081287	0.6120707	0.6159927	0.6198951	0.6237781	0.6276421	0.6314875	.22
.23	0.6074611	0.6115810	0.6156793	0.6197562	0.6238122	0.6278477	0.6318631	0.6358586	0.6398347	0.6437917	0.6477299	.23
.24	0.6225984	0.6268105	0.6310009	0.6351698	0.6393177	0.6434450	0.6475520	0.6516392	0.6557068	0.6597552	0.6637847	.24
.25	0.6375824	0.6418850	0.6461657	0.6504350	0.6546632	0.6588807	0.6630779	0.6672552	0.6714128	0.6755512	0.6796706	.25
.26	0.6524291	0.6568206	0.6611902	0.6655283	0.6698653	0.6741716	0.6784576	0.6827235	0.6869698	0.6911968	0.6954047	.26
.27	0.6671535	0.6716323	0.6760893	0.6805248	0.6849393	0.6893330	0.6937063	0.6980597	0.7023933	0.7067077	0.7110030	.27
.28	0.6817692	0.6863340	0.6908770	0.6953986	0.6998991	0.7043790	0.7088385	0.7132780	0.7176978	0.7220983	0.7264798	.28
.29	0.6962890	0.7009385	0.7055662	0.7101725	0.7147579	0.7193227	0.7238671	0.7283917	0.7328966	0.7373822	0.7418488	.29
.30	0.7107249	0.7154577	0.7201689	0.7248588	0.7295279	0.7341764	0.7388047	0.7434132	0.7480021	0.7525718	0.7571226	.30
.31	0.7250880	0.7299029	0.7346964	0.7394688	0.7442204	0.7489517	0.7536628	0.7583542	0.7630261	0.7676789	0.7723129	.31
.32	0.7393890	0.7442849	0.7491596	0.7540133	0.7588465	0.7636594	0.7684523	0.7732257	0.7779797	0.7827147	0.7874311	.32
.33	0.7536379	0.7586137	0.7635684	0.7685025	0.7734162	0.7783098	0.7831836	0.7880380	0.7928733	0.7976897	0.8024875	.33
.34	0.7678442	0.7728988	0.7779327	0.7829461	0.7879394	0.7929128	0.7978666	0.8028012	0.8077169	0.8126138	0.8174924	.34
.35	0.7820172	0.7871497	0.7922616	0.7973535	0.8024254	0.8074777	0.8125107	0.8175247	0.8225200	0.8274968	0.8324554	.35
.36	0.7961657	0.8013750	0.8065642	0.8117335	0.8168832	0.8220137	0.8271250	0.8322177	0.8372918	0.8423478	0.8473858	.36
.37	0.8102983	0.8155835	0.8208490	0.8260950	0.8313217	0.8365294	0.8417184	0.8468889	0.8520413	0.8571757	0.8622924	.37
.38	0.8244232	0.8297835	0.8351244	0.8404462	0.8457491	0.8510334	0.8562993	0.8615471	0.8667769	0.8719892	0.8771840	.38
.39	0.8385487	0.8439832	0.8493987	0.8547955	0.8601738	0.8655340	0.8708761	0.8762004	0.8815072	0.8867967	0.8920691	.39
.40	0.8526827	0.8581905	0.8636798	0.8691509	0.8746039	0.8800392	0.8854569	0.8908571	0.8962403	0.9016064	0.9069559	.40
.41	0.8668331	0.8724133	0.8779757	0.8835203	0.8890474	0.8945571	0.9000497	0.9055254	0.9109843	0.9164266	0.9218526	.41
.42	0.8810076	0.8866596	0.8922942	0.8979116	0.9035121	0.9090956	0.9146626	0.9202130	0.9257472	0.9312652	0.9367673	.42
.43	0.8952140	0.9009369	0.9066430	0.9123326	0.9180058	0.9236626	0.9293033	0.9349280	0.9405369	0.9461302	0.9517080	.43
.44	0.9094600	0.9152531	0.9210301	0.9267911	0.9325363	0.9382658	0.9439798	0.9496782	0.9553614	0.9610295	0.9666826	.44
.45	0.9237534	0.9296159	0.9354630	0.9412949	0.9471116	0.9529132	0.9586998	0.9644716	0.9702286	0.9759710	0.9816990	.45
.46	0.9381019	0.9440331	0.9499497	0.9558517	0.9617393	0.9676125	0.9734713	0.9793159	0.9851464	0.9909628	0.9967654	.46
.47	0.9525134	0.9585126	0.9644980	0.9704697	0.9764276	0.9823718	0.9883023	0.9942193	1.0001228	1.0060129	1.0118896	.47
.48	0.9669959	0.9730624	0.9791160	0.9851566	0.9911843	0.9971990	1.0032009	1.0091898	1.0151659	1.0211293	1.0270800	.48
.49	0.9815576	0.9876907	0.9938118	0.9999209	1.0060178	1.0121025	1.0181752	1.0242357	1.0302841	1.0363205	1.0423449	.49
.50	0.9962067	1.0024058	1.0085938	1.0147707	1.0209363	1.0270906	1.0332336	1.0393653	1.0454857	1.0515948	1.0576926	.50

$P \setminus c$	.70	.71	.72	.73	.74	.75	.76	.77	.78	.79	.80	c/P
.50	0.9962067	1.0024058	1.0085938	1.0147707	1.0209363	1.0270906	1.0332336	1.0393653	1.0454857	1.0515948	1.0576926	.50
.51	1.0109519	1.0172162	1.0234705	1.0297146	1.0359484	1.0421718	1.0483848	1.0545873	1.0607794	1.0669609	1.0731319	.51
.52	1.0258019	1.0321308	1.0384507	1.0447615	1.0510630	1.0573551	1.0636376	1.0699106	1.0761740	1.0824276	1.0886716	.52
.53	1.0407657	1.0471585	1.0535435	1.0599204	1.0662891	1.0726494	1.0790011	1.0853442	1.0916786	1.0980042	1.1043210	.53
.54	1.0558528	1.0623088	1.0687582	1.0752008	1.0816361	1.0880642	1.0944848	1.1008977	1.1073029	1.1137002	1.1200896	.54
.55	1.0710729	1.0775915	1.0841048	1.0906123	1.0971139	1.1036093	1.1100983	1.1165808	1.1230565	1.1295253	1.1359871	.55
.56	1.0864363	1.0930168	1.0995932	1.1061653	1.1127326	1.1192950	1.1258521	1.1324037	1.1389497	1.1454898	1.1520240	.56
.57	1.1019535	1.1085952	1.1152343	1.1218703	1.1285029	1.1351318	1.1417566	1.1483772	1.1549932	1.1616045	1.1682109	.57
.58	1.1176359	1.1243381	1.1310392	1.1377386	1.1444360	1.1511310	1.1578232	1.1645124	1.1711982	1.1778805	1.1845591	.58
.59	1.1334952	1.1402572	1.1470196	1.1537819	1.1605436	1.1673043	1.1740636	1.1808211	1.1875766	1.1943298	1.2010803	.59
.60	1.1495439	1.1563649	1.1631881	1.1700126	1.1768382	1.1836642	1.1904902	1.1973158	1.2041407	1.2109646	1.2177872	.60
.61	1.1657951	1.1726745	1.1795577	1.1864440	1.1933328	1.2002237	1.2071161	1.2140096	1.2209037	1.2277982	1.2346927	.61
.62	1.1822628	1.1891998	1.1961424	1.2030898	1.2100415	1.2169969	1.2239553	1.2309164	1.2378796	1.2448446	1.2518110	.62
.63	1.1989620	1.2059558	1.2129571	1.2199651	1.2269791	1.2339985	1.2410227	1.2480511	1.2550833	1.2621187	1.2691569	.63
.64	1.2159087	1.2229584	1.2300177	1.2370856	1.2441615	1.2512445	1.2583341	1.2654296	1.2725305	1.2796362	1.2867464	.64
.65	1.2331198	1.2402247	1.2473412	1.2544685	1.2616056	1.2687519	1.2759065	1.2830688	1.2902383	1.2974143	1.3045963	.65
.66	1.2506138	1.2577729	1.2649460	1.2721319	1.2793298	1.2865388	1.2937581	1.3009870	1.3082249	1.3154711	1.3227250	.66
.67	1.2684104	1.2756229	1.2828517	1.2900956	1.2973537	1.3046249	1.3119086	1.3192039	1.3265100	1.3338263	1.3411522	.67
.68	1.2865312	1.2937961	1.3010797	1.3083809	1.3156985	1.3230316	1.3303793	1.3377406	1.3451148	1.3525012	1.3598991	.68
.69	1.3049993	1.3123156	1.3196532	1.3270109	1.3343875	1.3417819	1.3491931	1.3566203	1.3640624	1.3715189	1.3789888	.69
.70	1.3238402	1.3312068	1.3385974	1.3460108	1.3534457	1.3609009	1.3683753	1.3758679	1.3833779	1.3909043	1.3984464	.70
.71	1.3430814	1.3504972	1.3579399	1.3654082	1.3729006	1.3804160	1.3879531	1.3955110	1.4030886	1.4106850	1.4182993	.71
.72	1.3627534	1.3702171	1.3777108	1.3852331	1.3927823	1.4003573	1.4079568	1.4155795	1.4232246	1.4308908	1.4385774	.72
.73	1.3828895	1.3903999	1.3979435	1.4055187	1.4131240	1.4207579	1.4284192	1.4361065	1.4438188	1.4515550	1.4593139	.73
.74	1.4035268	1.4110824	1.4186747	1.4263019	1.4339623	1.4416545	1.4493770	1.4571286	1.4649079	1.4727138	1.4805453	.74
.75	1.4247062	1.4323056	1.4399452	1.4476232	1.4553378	1.4630875	1.4708707	1.4786861	1.4865322	1.4944078	1.5023119	.75
.76	1.4464736	1.4541150	1.4618006	1.4695281	1.4772960	1.4851023	1.4929456	1.5008243	1.5087369	1.5166822	1.5246590	.76
.77	1.4688801	1.4765619	1.4842917	1.4920676	1.4998875	1.5077496	1.5156522	1.5235937	1.5315726	1.5395874	1.5476370	.77
.78	1.4919835	1.4997037	1.5074762	1.5152988	1.5231695	1.5310863	1.5390475	1.5470513	1.5550961	1.5631804	1.5713027	.78
.79	1.5158493	1.5236057	1.5314189	1.5392867	1.5472068	1.5551773	1.5631961	1.5712615	1.5793718	1.58753254	1.5957207	.79
.80	1.5405520	1.5483422	1.5561941	1.5641052	1.5720732	1.5800960	1.5881716	1.5962979	1.6044732	1.6126958	1.6209640	.80
.81	1.5661771	1.5739985	1.5818867	1.5898391	1.5978533	1.6059270	1.6140581	1.6222445	1.6304843	1.6387757	1.6471169	.81
.82	1.5928234	1.6006731	1.6085949	1.6165863	1.6246447	1.6327678	1.6409531	1.6491986	1.6575022	1.6658620	1.6742762	.82
.83	1.6206059	1.6284805	1.6364331	1.6444609	1.6525613	1.6607318	1.6689699	1.6772733	1.6856400	1.6940678	1.7025548	.83
.84	1.6496597	1.6575555	1.6655355	1.6735968	1.6817367	1.6899524	1.6982415	1.7066016	1.7150303	1.7235256	1.7320853	.84
.85	1.6801451	1.6880578	1.6960615	1.7041529	1.7123293	1.7205878	1.7289259	1.7373410	1.7458306	1.7543926	1.7630247	.85
.86	1.7122544	1.7201792	1.7282020	1.7363196	1.7445291	1.7528276	1.7612122	1.7696803	1.7782295	1.7868573	1.7955613	.86
.87	1.7462210	1.7541522	1.7621891	1.7703284	1.7785669	1.7869018	1.7953301	1.8038490	1.8124559	1.8211483	1.8299237	.87
.88	1.7823325	1.7902635	1.7983084	1.8064639	1.8147268	1.8230940	1.8315625	1.8401293	1.8487918	1.8575473	1.8663932	.88
.89	1.8209489	1.8288719	1.8369177	1.8450829	1.8533644	1.8617589	1.8702633	1.8788746	1.8875900	1.8964065	1.9053217	.89
.90	1.8625297	1.8704352	1.8784733	1.8866406	1.8949337	1.9033494	1.9118844	1.9205358	1.9293004	1.9381754	1.9471581	.90
.91	1.9076747	1.9155515	1.9235714	1.9317311	1.9400272	1.9484564	1.9570154	1.9657012	1.9745106	1.9834406	1.9924883	.91
.92	1.9571890	1.9650231	1.9730118	1.9811518	1.9894399	1.9978729	2.0064474	2.0151603	2.0240084	2.0329886	2.0420980	.92
.93	2.0121899	2.0196634	2.0279042	2.0360093	2.0442754	2.0526994	2.0612781	2.0700084	2.0788870	2.0879108	2.0970768	.93
.94	2.0742951	2.0819851	2.0898563	2.0979060	2.1061314	2.1145294	2.1230971	2.1318313	2.1407289	2.1497869	2.1590022	.94
.95	2.1459811	2.1535565	2.1613286	2.1692951	2.1774538	2.1858019	2.1943369	2.2030558	2.2119559	2.2210340	2.2302873	.95
.96	2.2313351	2.2387520	2.2463826	2.2542258	2.2622799	2.2705430	2.2790130	2.2876876	2.2965643	2.3056405	2.3149134	.96
.97	2.3378830	2.3450745	2.3524988	2.3601259	2.3680457	2.3761675	2.3845202	2.3931026	2.4019493	2.4109493	2.4202095	.97
.98	2.4821374	2.4889892	2.4960940	2.5034546	2.5110731	2.5189512	2.5270900	2.5354899	2.5441510	2.5530731	2.5622552	.98
.99	2.7150540	2.7213181	2.7278534	2.7346679	2.7417685	2.7491616	2.7568531	2.7648478	2.7731502	2.7817637	2.7906913	.99

$P \setminus c$	.80	.81	.82	.83	.84	.85	.86	.87	.88	.89	.90	c/P
.01	0.1268170	0.1276063	0.1283908	0.1291705	0.1299456	0.1307161	0.1314822	0.1322439	0.1330012	0.1337543	0.1345032	.01
.02	0.1798124	0.1809302	0.1820414	0.1831458	0.1842438	0.1853354	0.1864206	0.1874998	0.1885728	0.1896399	0.1907011	.02
.03	0.2208015	0.2221726	0.2235355	0.2248904	0.2262374	0.2275766	0.2289081	0.2302322	0.2315489	0.2328583	0.2341607	.03
.04	0.2556336	0.2572192	0.2587954	0.2603624	0.2619204	0.2634694	0.2650097	0.2665415	0.2680648	0.2695797	0.2710866	.04
.05	0.2865692	0.2883447	0.2901097	0.2918645	0.2936093	0.2953442	0.2970694	0.2987852	0.3004915	0.3021887	0.3038768	.05
.06	0.3147654	0.3167133	0.3186498	0.3205753	0.3224899	0.3243937	0.3262870	0.3281700	0.3300429	0.3319057	0.3337587	.06
.07	0.3409084	0.3430155	0.3451106	0.3471937	0.3492652	0.3513253	0.3533741	0.3554118	0.3574386	0.3594547	0.3614604	.07
.08	0.3654446	0.3677007	0.3699440	0.3721747	0.3743930	0.3765992	0.3787935	0.3809761	0.3831471	0.3853068	0.3874554	.08
.09	0.3886839	0.3910806	0.3934638	0.3958337	0.3981907	0.4005350	0.4028667	0.4051861	0.4074934	0.4097888	0.4120725	.09
.10	0.4108517	0.4133819	0.4158981	0.4184005	0.4208894	0.4233649	0.4258274	0.4282770	0.4307139	0.4331384	0.4355507	.10
.11	0.4321181	0.4347760	0.4374194	0.4400484	0.4426633	0.4452644	0.4478519	0.4504261	0.4529871	0.4555353	0.4580707	.11
.12	0.4526154	0.4553959	0.4581613	0.4609119	0.4636480	0.4663697	0.4690775	0.4717714	0.4744517	0.4771188	0.4797727	.12
.13	0.4724488	0.4753474	0.4782305	0.4810983	0.4839512	0.4867894	0.4896131	0.4924226	0.4952181	0.4979999	0.5007681	.13
.14	0.4917036	0.4947164	0.4977133	0.5006946	0.5036605	0.5066114	0.5095473	0.5124687	0.5153758	0.5182687	0.5211478	.14
.15	0.5104504	0.5135740	0.5166813	0.5197726	0.5228482	0.5259084	0.5289533	0.5319834	0.5349987	0.5379996	0.5409863	.15
.16	0.5287482	0.5319795	0.5351942	0.5383925	0.5415748	0.5447413	0.5478923	0.5510281	0.5541489	0.5572549	0.5603465	.16
.17	0.5466473	0.5499835	0.5533028	0.5566054	0.5598917	0.5631619	0.5664163	0.5696552	0.5728789	0.5760875	0.5792814	.17
.18	0.5641906	0.5676292	0.5710506	0.5744550	0.5778429	0.5812144	0.5845699	0.5879096	0.5912338	0.5945428	0.5978367	.18
.19	0.5814155	0.5849541	0.5884754	0.5919794	0.5954667	0.5989374	0.6023918	0.6058301	0.6092528	0.6126600	0.6160519	.19
.20	0.5983546	0.6019912	0.6056102	0.6092119	0.6127965	0.6163643	0.6199157	0.6234508	0.6269701	0.6304736	0.6339618	.20
.21	0.6150367	0.6187694	0.6224843	0.6261817	0.6298619	0.6335251	0.6371716	0.6408018	0.6444158	0.6480140	0.6515967	.21
.22	0.6314875	0.6351346	0.6387236	0.6422915	0.6468680	0.6514459	0.6560231	0.6605996	0.6651696	0.6697388	0.6743096	.22
.23	0.6477299	0.6513697	0.6549553	0.6584931	0.6620864	0.6656363	0.6691431	0.6726982	0.6762573	0.6798147	0.6833783	.23
.24	0.6637847	0.6673956	0.6709584	0.6744762	0.6779520	0.6813831	0.6848275	0.6882844	0.6917429	0.6952022	0.6986626	.24
.25	0.6796706	0.6832713	0.6868338	0.6903583	0.6938361	0.6972674	0.7007421	0.7041607	0.7076233	0.7110890	0.7145572	.25
.26	0.6954047	0.6989590	0.7024650	0.7059179	0.7093750	0.7128363	0.7162910	0.7197493	0.7232125	0.7266708	0.7301340	.26
.27	0.7110030	0.7145296	0.7180579	0.7215870	0.7251167	0.7286460	0.7321750	0.7357033	0.7392310	0.7427587	0.7462864	.27
.28	0.7264798	0.7300427	0.7335871	0.7371315	0.7406750	0.7442183	0.7477616	0.7513049	0.7548482	0.7583915	0.7619348	.28
.29	0.7418488	0.7454296	0.7489706	0.7525111	0.7560516	0.7595921	0.7631326	0.7666731	0.7702136	0.7737541	0.7772946	.29
.30	0.7571226	0.7616548	0.7661687	0.7706646	0.7751428	0.7796035	0.7840472	0.7884739	0.7928840	0.7972778	0.8016555	.30
.31	0.7723129	0.7769284	0.7815257	0.7861050	0.7906668	0.7952111	0.7997384	0.8042488	0.8087427	0.8132203	0.8176819	.31
.32	0.7874311	0.7921290	0.7968088	0.8014708	0.8061153	0.8107425	0.8153527	0.8199461	0.8245231	0.8290839	0.8336287	.32
.33	0.8024875	0.8072671	0.8120287	0.8167727	0.8214991	0.8262085	0.8309010	0.8355768	0.8402363	0.8448796	0.8495071	.33
.34	0.8174924	0.8223529	0.8271956	0.8320208	0.8368286	0.8416195	0.8463936	0.8511512	0.8558926	0.8606180	0.8653277	.34
.35	0.8324554	0.8373962	0.8423193	0.8472250	0.8521136	0.8569854	0.8618406	0.8666795	0.8715022	0.8763092	0.8811005	.35
.36	0.8473858	0.8524061	0.8574089	0.8623947	0.8673635	0.8723157	0.8772515	0.8821711	0.8870748	0.8919628	0.8968354	.36
.37	0.8622924	0.8673917	0.8724738	0.8775389	0.8825874	0.8876195	0.8926354	0.8976353	0.9026195	0.9075883	0.9125417	.37
.38	0.8771840	0.8823216	0.8875225	0.8926666	0.8977943	0.9029058	0.9080013	0.9130812	0.9181455	0.9231946	0.9282286	.38
.39	0.8920691	0.8973246	0.9025636	0.9077862	0.9129926	0.9181832	0.9233580	0.9285174	0.9336615	0.9387906	0.9439049	.39
.40	0.9069559	0.9122889	0.9176056	0.9228962	0.9281910	0.9334601	0.9387139	0.9439525	0.9491761	0.9543850	0.9595793	.40
.41	0.9218526	0.9272625	0.9326565	0.9380348	0.9433976	0.9487450	0.9540774	0.9593949	0.9646978	0.9699862	0.9752603	.41
.42	0.9367673	0.9422537	0.9477246	0.9531802	0.9586206	0.9640461	0.9694568	0.9748530	0.9802349	0.9856026	0.9909564	.42
.43	0.9517080	0.9572705	0.9628179	0.9683504	0.9738682	0.9793714	0.9848602	0.9903349	0.9957956	1.0012425	1.0066757	.43
.44	0.9666826	0.9723208	0.9779444	0.9835536	0.9891484	0.9947291	1.0002959	1.0058488	1.0113882	1.0169141	1.0224268	.44
.45	0.9816990	0.9874127	0.9931122	0.9987977	1.0044694	1.0101274	1.0157718	1.0214029	1.0270208	1.0326257	1.0382178	.45
.46	0.9967654	1.0025541	1.0083293	1.0140909	1.0198392	1.0255743	1.0312963	1.0370055	1.0427019	1.0483857	1.0540570	.46
.47	1.0118896	1.0177532	1.0236038	1.0294413	1.0352661	1.0410781	1.0468776	1.0526647	1.0584395	1.0642022	1.0699529	.47
.48	1.0270800	1.0330182	1.0389439	1.0448572	1.0507582	1.0566471	1.0625240	1.0683890	1.0742422	1.0800838	1.0859139	.48
.49	1.0423449	1.0483573	1.0543580	1.0603469	1.0663241	1.0722898	1.0782440	1.0841868	1.0901185	1.0960390	1.1019486	.49
.50	1.0576926	1.0637792	1.0698546	1.0759189	1.0819723	1.0880146	1.0940462	1.1000669	1.1060770	1.1120766	1.1180657	.50

$P \setminus c$	.80	.81	.82	.83	.84	.85	.86	.87	.88	.89	.90	c/P
.50	1.0576926	1.0637792	1.0698546	1.0759189	1.0819723	1.0880146	1.0940462	1.1000669	1.1060770	1.1120766	1.1180657	.50
.51	1.0731319	1.0792924	1.0854425	1.0915821	1.0977115	1.1038305	1.1099394	1.1160381	1.1221268	1.1282055	1.1342743	.51
.52	1.0886716	1.0949059	1.1011305	1.1073454	1.1135507	1.1197465	1.1259327	1.1321094	1.1382768	1.1444348	1.1505836	.52
.53	1.1043210	1.1106289	1.1169279	1.1232181	1.1294994	1.1357718	1.1420354	1.1482903	1.1545365	1.1607740	1.1670029	.53
.54	1.1200896	1.1264710	1.1328443	1.1392097	1.1455669	1.1519161	1.1582573	1.1645905	1.1709156	1.1772328	1.1835422	.54
.55	1.1359871	1.1424419	1.1488896	1.1553301	1.1617634	1.1681895	1.1746083	1.1810199	1.1874243	1.1938214	1.2002115	.55
.56	1.1520240	1.1585521	1.1650741	1.1715898	1.1780991	1.1846022	1.1910988	1.1975891	1.2040729	1.2105504	1.2170214	.56
.57	1.1682109	1.1748123	1.1814085	1.1879994	1.1945850	1.2011651	1.2077398	1.2143089	1.2208725	1.2274306	1.2339830	.57
.58	1.1845591	1.1912337	1.1979041	1.2045704	1.2112323	1.2178897	1.2245426	1.2311909	1.2378346	1.2444736	1.2511079	.58
.59	1.2010803	1.2078281	1.2145729	1.2213146	1.2280529	1.2347878	1.2415192	1.2482470	1.2549711	1.2616915	1.2684081	.59
.60	1.2177872	1.2246081	1.2314273	1.2382445	1.2450595	1.2518721	1.2586823	1.2654899	1.2722949	1.2790970	1.2858964	.60
.61	1.2346927	1.2415869	1.2484805	1.2553734	1.2622652	1.2691559	1.2760452	1.2829330	1.2898192	1.2967037	1.3035864	.61
.62	1.2518110	1.2587785	1.2657467	1.2727153	1.2796843	1.2866532	1.2936220	1.3005904	1.3075584	1.3145257	1.3214923	.62
.63	1.2691569	1.2761977	1.2832406	1.2902853	1.2973316	1.3043791	1.3114278	1.3184773	1.3255275	1.3325783	1.3396294	.63
.64	1.2867464	1.2938605	1.3009782	1.3080992	1.3152231	1.3223497	1.3294786	1.3366098	1.3437428	1.3508776	1.3580140	.64
.65	1.3045963	1.3117839	1.3189767	1.3261742	1.3333760	1.3405820	1.3477917	1.3550050	1.3622215	1.3694411	1.3766635	.65
.66	1.3227250	1.3299862	1.3372542	1.3445285	1.3518087	1.3590945	1.3663855	1.3736815	1.3809821	1.3882872	1.3955964	.66
.67	1.3411522	1.3484871	1.3558305	1.3631819	1.3705408	1.3779070	1.3852798	1.3926592	1.4000446	1.4074360	1.4148329	.67
.68	1.3598991	1.3673079	1.3747270	1.3821558	1.3895939	1.3970408	1.4044962	1.4119596	1.4194306	1.4269091	1.4343946	.68
.69	1.3789888	1.3864716	1.3939666	1.4014733	1.4089910	1.4165193	1.4240578	1.4316060	1.4391635	1.4467300	1.4543052	.69
.70	1.3984464	1.4060034	1.4135746	1.4211595	1.4287573	1.4363676	1.4439899	1.4516237	1.4592686	1.4669241	1.4745900	.70
.71	1.4182993	1.4259307	1.4335785	1.4412419	1.4489204	1.4566134	1.4643203	1.4720405	1.4797737	1.4875194	1.4952771	.71
.72	1.4385774	1.4462835	1.4540081	1.4617507	1.4695105	1.4772868	1.4850790	1.4928867	1.5007092	1.5085461	1.5163970	.72
.73	1.4593139	1.4670948	1.4748968	1.4827189	1.4905606	1.4984210	1.5062995	1.5141956	1.5221086	1.5300380	1.5379833	.73
.74	1.4805453	1.4884013	1.4962808	1.5041831	1.5121073	1.5200527	1.5280184	1.5360039	1.5440082	1.5520318	1.5600731	.74
.75	1.5023119	1.5102433	1.5182009	1.5261839	1.5341914	1.5422225	1.5502765	1.5583526	1.5664502	1.5745687	1.5827075	.75
.76	1.5246590	1.5326659	1.5407021	1.5487664	1.5568579	1.5649758	1.5731191	1.5812871	1.5894791	1.5976944	1.6059323	.76
.77	1.5476370	1.5557199	1.5638350	1.5719813	1.5801577	1.5883632	1.5965970	1.6048582	1.6131461	1.6214599	1.6297989	.77
.78	1.5713027	1.5794618	1.5876565	1.5958854	1.6041475	1.6124419	1.6207675	1.6291234	1.6375087	1.6459228	1.6543648	.78
.79	1.5957207	1.6039563	1.6122309	1.6205432	1.6288921	1.6372764	1.6456951	1.6541472	1.6626318	1.6711481	1.6796953	.79
.80	1.6209640	1.6292764	1.6376316	1.6460280	1.6544646	1.6629402	1.6714535	1.6800035	1.6885894	1.6972100	1.7058647	.80
.81	1.6471169	1.6555064	1.6639426	1.6724240	1.6809494	1.6895175	1.6981270	1.7067768	1.7154659	1.7241933	1.7329580	.81
.82	1.6742762	1.6827430	1.6912608	1.6998282	1.7084435	1.7171056	1.7258130	1.7345646	1.7433593	1.7521959	1.7610735	.82
.83	1.7025548	1.7110992	1.7196993	1.7283534	1.7370600	1.7458176	1.7546248	1.7634804	1.7723831	1.7813317	1.7903252	.83
.84	1.7320853	1.7407075	1.7493904	1.7581322	1.7669313	1.7757861	1.7846952	1.7936571	1.8026706	1.8117344	1.8208472	.84
.85	1.7630247	1.7717248	1.7804911	1.7893217	1.7982147	1.8071686	1.8161818	1.8252527	1.8343799	1.8435622	1.8527981	.85
.86	1.7955613	1.8043395	1.8131898	1.8221101	1.8310985	1.8401535	1.8492731	1.8584558	1.8677002	1.8770048	1.8863681	.86
.87	1.8299237	1.8387799	1.8477146	1.8567257	1.8658112	1.8749693	1.8841981	1.8934959	1.9028611	1.9122922	1.9217876	.87
.88	1.8663932	1.8753271	1.8843466	1.8934496	1.9026338	1.9118974	1.9212383	1.9306547	1.9401449	1.9497073	1.9593402	.88
.89	1.9053217	1.9143328	1.9234375	1.9326333	1.9419181	1.9512897	1.9607459	1.9702850	1.9799049	1.9896039	1.9993803	.89
.90	1.9471581	1.9562457	1.9654355	1.9747252	1.9841124	1.9935947	2.0031699	2.0128360	2.0225910	2.0324329	2.0423599	.90
.91	1.9924883	2.0016509	2.0109258	2.0203101	2.0298015	2.0393975	2.0490958	2.0588940	2.0687902	2.0787822	2.0888680	.91
.92	2.0420980	2.0513335	2.0606925	2.0701720	2.0797695	2.0894824	2.0993082	2.1092444	2.1192889	2.1294394	2.1396938	.92
.93	2.0970768	2.1063820	2.1158234	2.1253981	2.1351034	2.1449365	2.1548949	2.1649759	2.1751772	2.1854963	2.1959310	.93
.94	2.1590022	2.1683717	2.1778925	2.1875615	2.1973758	2.2073326	2.2174292	2.2276629	2.2380310	2.2485310	2.2591604	.94
.95	2.2302873	2.2397126	2.2493071	2.2590676	2.2689913	2.2790751	2.2893162	2.2997118	2.3102591	2.3209553	2.3317980	.95
.96	2.3149134	2.3243801	2.3340379	2.3438838	2.3539147	2.3641278	2.3745201	2.3850887	2.3958307	2.4067432	2.4178234	.96
.97	2.4202095	2.4296912	2.4393092	2.4490488	2.4589400	2.4689716	2.4803312	2.4910858	2.5020424	2.5131982	2.5245502	.97
.98	2.5622552	2.5716962	2.5813947	2.5913488	2.6015565	2.6120156	2.6227236	2.6336779	2.6448757	2.6563142	2.6679904	.98
.99	2.7906913	2.7999352	2.8094969	2.8193774	2.8295770	2.8400956	2.8509325	2.8620865	2.8735563	2.8853398	2.8974348	.99

K = K(P, c) where probability P = P(K, c), $0 \leq c = v/u \leq 1$, R = K * u										c/P	
P \ c	.90	.91	.92	.93	.94	.95	.96	.97	.98	.99	1.00
.01	0.1345032	0.1352480	0.1359888	0.1367255	0.1374584	0.1381874	0.1389127	0.1396342	0.1403520	0.1410662	0.1417768
.02	0.1907011	0.1917566	0.1928063	0.1938505	0.1948893	0.1959226	0.1969506	0.1979733	0.1989909	0.2000035	0.2010110
.03	0.2341607	0.2354560	0.2367444	0.2380260	0.2393010	0.2405694	0.2418314	0.2430870	0.2443363	0.2455795	0.2468166
.04	0.2710866	0.2725854	0.2740763	0.2755594	0.2770349	0.2785029	0.2799635	0.2814168	0.2828629	0.2843020	0.2857341
.05	0.3038768	0.3055560	0.3072264	0.3088883	0.3105417	0.3121867	0.3138236	0.3154523	0.3170732	0.3186861	0.3202914
.06	0.3337587	0.3356021	0.3374359	0.3392604	0.3410757	0.3428820	0.3446793	0.3464679	0.3482478	0.3500193	0.3517823
.07	0.3614604	0.3634556	0.3654407	0.3674158	0.3693811	0.3713366	0.3732827	0.3752193	0.3771467	0.3790649	0.3809743
.08	0.3874554	0.3895930	0.3917198	0.3938360	0.3959418	0.3980374	0.4001228	0.4021983	0.4042640	0.4063200	0.4083665
.09	0.4120725	0.4143446	0.4166055	0.4188562	0.4210939	0.4233219	0.4255392	0.4277461	0.4299427	0.4321291	0.4343056
.10	0.4355507	0.4379510	0.4403395	0.4427163	0.4450817	0.4474359	0.4497789	0.4521110	0.4544324	0.4567432	0.4590436
.11	0.4580707	0.4605937	0.4631044	0.4656030	0.4680898	0.4705648	0.4730283	0.4754805	0.4779215	0.4803516	0.4827708
.12	0.4797727	0.4824137	0.4850420	0.4876578	0.4902613	0.4928528	0.4954323	0.4980001	0.5005564	0.5031013	0.5056350
.13	0.5007681	0.5035231	0.5062650	0.5089941	0.5117105	0.5144144	0.5171061	0.5197857	0.5224534	0.5251094	0.5277539
.14	0.5211478	0.5240132	0.5268652	0.5297040	0.5325298	0.5353428	0.5381432	0.5409313	0.5437071	0.5464709	0.5492229
.15	0.5409863	0.5439591	0.5469181	0.5498636	0.5527957	0.5557148	0.5586210	0.5615146	0.5643956	0.5672643	0.5701209
.16	0.5603465	0.5634238	0.5664870	0.5695365	0.5725723	0.5755949	0.5786042	0.5816006	0.5845842	0.5875553	0.5905140
.17	0.5792814	0.5824607	0.5856258	0.5887768	0.5919139	0.5950375	0.5981476	0.6012445	0.6043285	0.6073996	0.6104582
.18	0.5978367	0.6011159	0.6043805	0.6076309	0.6108671	0.6140896	0.6172984	0.6204938	0.6236760	0.6268451	0.6300015
.19	0.6160519	0.6194289	0.6227912	0.6261389	0.6294724	0.6327918	0.6360974	0.6393894	0.6426680	0.6459333	0.6491857
.20	0.6339618	0.6374347	0.6408928	0.6443350	0.6477650	0.6511797	0.6545804	0.6579672	0.6613405	0.6647005	0.6680472
.21	0.6515967	0.6551639	0.6587162	0.6622535	0.6657733	0.6692846	0.6727788	0.6762590	0.6797256	0.6831786	0.6866183
.22	0.6689838	0.6726439	0.6762888	0.6799187	0.6835338	0.6871345	0.6907208	0.6942930	0.6978514	0.7013962	0.7049275
.23	0.6861475	0.6898990	0.6936352	0.6973563	0.7010626	0.7047542	0.7084314	0.7120944	0.7157434	0.7193787	0.7230004
.24	0.7031096	0.7069514	0.7107777	0.7145888	0.7183849	0.7221663	0.7259332	0.7296858	0.7334244	0.7371490	0.7408601
.25	0.7198902	0.7238209	0.7277362	0.7316362	0.7355211	0.7393912	0.7432468	0.7470880	0.7509151	0.7547282	0.7585276
.26	0.7365072	0.7405260	0.7445291	0.7485170	0.7524897	0.7564476	0.7603909	0.7643198	0.7682344	0.7721351	0.7760220
.27	0.7529774	0.7570832	0.7611733	0.7652482	0.7693078	0.7733526	0.7773827	0.7813984	0.7853998	0.7893872	0.7933609
.28	0.7693162	0.7735081	0.7776844	0.7818453	0.7859911	0.7901219	0.7942381	0.7983398	0.8024273	0.8065007	0.8105604
.29	0.7855378	0.7898150	0.7940767	0.7983229	0.8025540	0.8067703	0.8109718	0.8151589	0.8193317	0.8234905	0.8276356
.30	0.8016555	0.8060174	0.8103636	0.8146946	0.8190104	0.8233113	0.8275975	0.8318694	0.8361270	0.8403706	0.8446004
.31	0.8176819	0.8221277	0.8265579	0.8309729	0.8353728	0.8397578	0.8441282	0.8484842	0.8528261	0.8571540	0.8614681
.32	0.8336287	0.8381578	0.8426715	0.8471699	0.8516533	0.8561219	0.8605760	0.8650157	0.8694413	0.8738530	0.8782511
.33	0.8495071	0.8541190	0.8587155	0.8632968	0.8678632	0.8724150	0.8769523	0.8814753	0.8859843	0.8904794	0.8949610
.34	0.8653277	0.8700218	0.8747007	0.8793645	0.8840135	0.8886480	0.8932680	0.8978740	0.9024660	0.9070442	0.9116090
.35	0.8811005	0.8858765	0.8906373	0.8953832	0.9001145	0.9048312	0.9095338	0.9142223	0.9188970	0.9235580	0.9282057
.36	0.8968354	0.9016928	0.9065352	0.9113628	0.9161760	0.9209748	0.9257595	0.9305303	0.9352874	0.9400311	0.9447615
.37	0.9125417	0.9174802	0.9224038	0.9273129	0.9322076	0.9370882	0.9419548	0.9468077	0.9516471	0.9564731	0.9612861
.38	0.9282286	0.9332478	0.9382525	0.9432427	0.9482188	0.9531809	0.9581292	0.9630640	0.9679855	0.9728938	0.9777891
.39	0.9439049	0.9490046	0.9540900	0.9591611	0.9642184	0.9692618	0.9742918	0.9793083	0.9843118	0.9893022	0.9942800
.40	0.9595793	0.9647593	0.9699252	0.9750771	0.9802153	0.9853400	0.9904514	0.9955497	1.0006350	1.0057076	1.0107677
.41	0.9752603	0.9805204	0.9857666	0.9909992	0.9962183	1.0014241	1.0066169	1.0117968	1.0169640	1.0221188	1.0272612
.42	0.9909564	0.9962964	1.0016228	1.0069359	1.0122359	1.0175228	1.0227970	1.0280585	1.0333076	1.0385445	1.0437693
.43	1.0066757	1.0120956	1.0175022	1.0228958	1.0282765	1.0336445	1.0390001	1.0443433	1.0496744	1.0549935	1.0603008
.44	1.0224268	1.0279294	1.0334132	1.0388872	1.0443487	1.0497978	1.0552348	1.0606598	1.0660729	1.0714744	1.0768644
.45	1.0382178	1.0437971	1.0493640	1.0549185	1.0604608	1.0659912	1.0715097	1.0770165	1.0825119	1.0879959	1.0934688
.46	1.0540570	1.0597161	1.0653631	1.0709982	1.0766214	1.0822331	1.0878333	1.0934221	1.0989999	1.1045667	1.1101226
.47	1.0699529	1.0756918	1.0814190	1.0871347	1.0928390	1.0985321	1.1042141	1.1098852	1.1155456	1.1211954	1.1268347
.48	1.0859139	1.0917326	1.0975402	1.1033366	1.1091221	1.1148969	1.1206610	1.1264146	1.1321579	1.1378909	1.1436140
.49	1.1019486	1.1078473	1.1137353	1.1196127	1.1254796	1.1313362	1.1371826	1.1430190	1.1488455	1.1546622	1.1604693
.50	1.1180657	1.1240446	1.1300132	1.1359717	1.1419203	1.1478591	1.1537881	1.1597076	1.1656177	1.1715184	1.1774100

$P \setminus c$	.90	.91	.92	.93	.94	.95	.96	.97	.98	.99	1.00	c/P
.50	1.1180657	1.1240446	1.1300132	1.1359717	1.1419203	1.1478591	1.1537881	1.1597076	1.1656177	1.1715184	1.1774100	.50
.51	1.1342743	1.1403335	1.1463829	1.1524229	1.1584534	1.1644746	1.1704866	1.1764896	1.1824836	1.1884689	1.1944454	.51
.52	1.1505836	1.1567232	1.1628538	1.1689754	1.1750882	1.1811922	1.1872876	1.1933745	1.1994529	1.2055231	1.2115851	.52
.53	1.1670029	1.1732233	1.1794353	1.1856390	1.1918344	1.1980216	1.2042008	1.2103720	1.2165354	1.2226910	1.2288390	.53
.54	1.1835422	1.1898437	1.1961374	1.2024234	1.2087019	1.2149727	1.2212362	1.2274923	1.2337411	1.2399827	1.2462173	.54
.55	1.2002115	1.2065944	1.2129702	1.2193391	1.2257010	1.2320560	1.2384042	1.2447457	1.2510806	1.2574089	1.2637307	.55
.56	1.2170214	1.2234861	1.2299445	1.2363966	1.2428425	1.2492822	1.2557157	1.2621433	1.2685648	1.2749805	1.2813903	.56
.57	1.2339830	1.2405300	1.2470713	1.2536072	1.2601376	1.2666625	1.2731820	1.2796963	1.2862052	1.2927089	1.2992075	.57
.58	1.2511079	1.2577375	1.2643623	1.2709825	1.2775980	1.2842088	1.2908150	1.2974166	1.3040137	1.3106063	1.3171944	.58
.59	1.2684081	1.2751208	1.2818297	1.2885348	1.2952360	1.3019334	1.3086270	1.3153167	1.3220028	1.3286851	1.3353637	.59
.60	1.2858964	1.2926929	1.2994864	1.3062770	1.3130647	1.3198494	1.3266311	1.3334099	1.3401857	1.3469587	1.3537287	.60
.61	1.3035864	1.3104671	1.3173460	1.3242229	1.3310977	1.3379705	1.3448412	1.3517099	1.3585765	1.3654410	1.3723036	.61
.62	1.3214923	1.3284581	1.3354229	1.3423868	1.3493496	1.3563114	1.3632720	1.3702315	1.3771899	1.3841471	1.3911032	.62
.63	1.3396294	1.3466809	1.3537325	1.3607842	1.3678359	1.3748875	1.3819390	1.3889904	1.3960416	1.4030926	1.4101434	.63
.64	1.3580140	1.3651519	1.3722911	1.3794314	1.3865729	1.3937154	1.4008589	1.4079945	1.4151485	1.4222945	1.4294413	.64
.65	1.3766635	1.3838886	1.3911162	1.3983462	1.4055785	1.4128129	1.4200495	1.4272880	1.4345284	1.4417708	1.4490149	.65
.66	1.3955964	1.4029096	1.4102266	1.4175473	1.4248714	1.4321990	1.4395298	1.4468637	1.4542007	1.4615407	1.4688837	.66
.67	1.4148329	1.4222352	1.4296426	1.4370550	1.4444722	1.4518940	1.4593203	1.4667511	1.4741861	1.4816253	1.4890686	.67
.68	1.4343946	1.4418870	1.4493859	1.4568912	1.4644027	1.4719201	1.4794434	1.4869724	1.4945069	1.5020469	1.5095922	.68
.69	1.4543052	1.4618887	1.4694803	1.4770798	1.4846868	1.4923013	1.4999230	1.5075518	1.5151874	1.5228299	1.5304790	.69
.70	1.4745900	1.4822659	1.4899514	1.4976464	1.5053505	1.5130635	1.5207853	1.5285155	1.5362541	1.5440009	1.5517557	.70
.71	1.4952771	1.5030466	1.5108274	1.5186194	1.5264200	1.5342352	1.5420587	1.5498922	1.5577356	1.5655887	1.5734512	.71
.72	1.5163970	1.5242615	1.5321391	1.5400295	1.5479324	1.5558475	1.5637746	1.5717133	1.5796635	1.5876250	1.5955975	.72
.73	1.5379833	1.5459442	1.5539201	1.5619107	1.5699156	1.5779346	1.5859672	1.5940133	1.6020725	1.6101446	1.6182295	.73
.74	1.5600731	1.5681319	1.5762079	1.5843005	1.5924054	1.6005341	1.6086745	1.6168301	1.6250007	1.6331860	1.6413858	.74
.75	1.5820775	1.5908660	1.5990438	1.6072404	1.6154592	1.6236881	1.6319385	1.6402061	1.6484906	1.6567918	1.6651092	.75
.76	1.6059323	1.6141924	1.6224740	1.6307766	1.6390997	1.6474430	1.6558060	1.6641882	1.6725894	1.6810093	1.6894475	.76
.77	1.6297989	1.6381624	1.6465500	1.6549609	1.6633948	1.6718510	1.6803293	1.6888291	1.6973500	1.7058917	1.7144538	.77
.78	1.6543648	1.6628340	1.6713298	1.6798516	1.6883988	1.6969709	1.7055674	1.7141878	1.7228317	1.7314986	1.7401883	.78
.79	1.6796953	1.6882725	1.6968791	1.7055145	1.7141779	1.7228689	1.7315868	1.7403313	1.7491017	1.7578977	1.7667189	.79
.80	1.7058647	1.7145524	1.7232726	1.7320245	1.7408073	1.7496205	1.7584635	1.7673357	1.7762366	1.7851657	1.7941226	.80
.81	1.7329580	1.7417591	1.7505959	1.7594675	1.7683732	1.7773123	1.7862842	1.7952883	1.8043239	1.8133907	1.8224880	.81
.82	1.7610735	1.7699910	1.7789477	1.7879426	1.7969749	1.8060440	1.8151491	1.8242896	1.8334648	1.8426741	1.8519171	.82
.83	1.7903252	1.7993626	1.8084428	1.8175649	1.8267282	1.8359317	1.8451748	1.8544567	1.8637767	1.8731341	1.8825285	.83
.84	1.8208472	1.8300081	1.8392159	1.8484697	1.8577685	1.8671115	1.8764979	1.8859267	1.8953974	1.9049092	1.9144615	.84
.85	1.8527981	1.8620867	1.8714267	1.8808170	1.8902566	1.8997447	1.9092802	1.9188624	1.9284904	1.9381634	1.9478809	.85
.86	1.8863681	1.8957890	1.9052661	1.9147984	1.9243848	1.9340242	1.9437156	1.9534582	1.9632510	1.9730932	1.9829840	.86
.87	1.9217876	1.9313460	1.9409661	1.9506466	1.9603864	1.9701843	1.9800392	1.9899508	1.9999164	2.0099367	2.0200103	.87
.88	1.9593402	1.9690421	1.9788116	1.9886474	1.9985482	2.0085128	2.0185400	2.0286286	2.0387780	2.0489867	2.0592540	.88
.89	1.9993803	2.0092325	2.0191590	2.0291583	2.0392290	2.0493697	2.0595793	2.0698566	2.0802003	2.0906095	2.1010830	.89
.90	2.0423599	2.0523703	2.0624624	2.0726347	2.0828856	2.0932136	2.1036175	2.1140959	2.1246476	2.1352713	2.1459660	.90
.91	2.0888680	2.0990458	2.1093139	2.1196703	2.1301136	2.1406422	2.1512545	2.1619492	2.1727248	2.1835801	2.1945139	.91
.92	2.1396938	2.1500501	2.1605063	2.1710605	2.1817110	2.1924560	2.2032940	2.2142233	2.2252425	2.2363501	2.2475447	.92
.93	2.1959310	2.2107490	2.2261384	2.2420700	2.2585729	2.2747642	2.2908491	2.2720360	2.2833230	2.2947088	2.3061917	.93
.94	2.2591604	2.2699170	2.2807983	2.2918022	2.3029266	2.3141694	2.3255285	2.3370022	2.3485886	2.3602858	2.3720922	.94
.95	2.3317980	2.3427844	2.3539122	2.3651788	2.3765820	2.3881195	2.3997891	2.4115886	2.4235161	2.4355695	2.4477468	.95
.96	2.4178234	2.4290685	2.4404759	2.4520429	2.4637670	2.4756455	2.4876762	2.4998565	2.5121841	2.5246568	2.5372725	.96
.97	2.5245502	2.5360954	2.5478309	2.5597538	2.5718613	2.5841506	2.5966189	2.6092635	2.6220818	2.6350711	2.6482288	.97
.98	2.6679904	2.6799014	2.6920439	2.7044151	2.7170116	2.7298305	2.7428685	2.7561226	2.7695895	2.7832662	2.7971496	.98
.99	2.8974348	2.9098388	2.9225490	2.9355623	2.9488757	2.9624855	2.9763884	2.9905806	3.0050582	3.0198174	3.0348543	.99

K = K(P, c) where probability P = P(K, c), 0 ≤ c = v/u ≤ 1, R = K * u											
P\c	.00	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50
.990000	2.5758293	2.5763152	2.5777809	2.5802506	2.5837662	2.5883900	2.5942092	2.6013425	2.6099507	2.6202543	2.6325668
.990500	2.5935164	2.5939990	2.5954548	2.5979075	2.6013990	2.6059910	2.6117699	2.6188535	2.6274009	2.6376306	2.6498517
.991000	2.6120541	2.6125333	2.6139787	2.6164140	2.6198806	2.6244397	2.6301770	2.6372092	2.6456939	2.6558471	2.6679741
.991500	2.6315354	2.6320111	2.6334457	2.6358630	2.6393037	2.6438288	2.6495231	2.6565021	2.6649218	2.6749960	2.6870259
.992000	2.6520698	2.6525418	2.6539653	2.6563638	2.6597778	2.6642675	2.6699171	2.6768408	2.6851933	2.6951856	2.7071147
.992500	2.6737873	2.6742554	2.6756674	2.6780464	2.6814325	2.6858854	2.6914885	2.6983548	2.7066373	2.7165444	2.7283691
.993000	2.6968443	2.6973084	2.6987083	2.7010668	2.7044239	2.7088384	2.7143930	2.7211994	2.7294088	2.7392272	2.7509431
.993500	2.7214308	2.7218907	2.7232779	2.7256151	2.7289417	2.7333161	2.7388197	2.7455634	2.7536964	2.7634219	2.7750242
.994000	2.7477814	2.7482369	2.7496108	2.7519256	2.7552201	2.7595522	2.7650024	2.7716801	2.7797328	2.7893608	2.8008438
.994500	2.7761903	2.7766412	2.7780010	2.7802920	2.7835527	2.7878401	2.7932338	2.7998419	2.8078098	2.8173349	2.8286924
.995000	2.8070338	2.8074797	2.8088246	2.8110903	2.8143150	2.8185549	2.8238887	2.8304228	2.8383006	2.8477166	2.8589410
.995500	2.8408037	2.8412443	2.8425732	2.8448120	2.8479982	2.8521873	2.8574569	2.8639119	2.8716935	2.8809930	2.8920753
.996000	2.8781617	2.8785966	2.8799082	2.8821179	2.8852626	2.8893969	2.8945974	2.9009671	2.9086450	2.9178189	2.9287485
.996500	2.9200279	2.9204566	2.9217494	2.9239273	2.9270267	2.9311014	2.9362264	2.9425032	2.9500682	2.9591055	2.9698692
.997000	2.9677379	2.9681597	2.9694317	2.9715745	2.9746239	2.9786326	2.9836744	2.9898486	2.9972889	3.0061756	3.0167566
.997500	3.0233414	3.0237554	3.0250040	3.0271074	3.0301004	3.0340350	3.0389830	3.0450419	3.0523421	3.0610596	3.0714357
.998000	3.0902323	3.0906373	3.0918589	3.0939166	3.0968447	3.1006935	3.1055334	3.1114591	3.1185978	3.1271203	3.1372606
.998500	3.1746835	3.1750778	3.1762668	3.1782697	3.1811196	3.1848655	3.1895754	3.1953412	3.2022859	3.2105747	3.2204327
.999000	3.2905267	3.2909071	3.2920543	3.2939865	3.2967358	3.3003490	3.3048917	3.3104518	3.3171473	3.3251358	3.3343632
.999100	3.3200541	3.3204311	3.3215680	3.3234831	3.3262078	3.3297888	3.3342907	3.3398007	3.3464355	3.3543511	3.3637595
.999200	3.3527948	3.3531681	3.3542939	3.3561903	3.3588883	3.3624341	3.3668916	3.3723472	3.3789160	3.3867522	3.3960652
.999300	3.3895791	3.3899484	3.3910620	3.3929377	3.3956064	3.3991135	3.4035223	3.4089180	3.4154142	3.4231631	3.4323712
.999400	3.4316144	3.4319791	3.4330791	3.4349318	3.4375677	3.4410316	3.4453860	3.4507148	3.4571300	3.4647816	3.4738727
.999500	3.4807564	3.4811160	3.4822004	3.4840269	3.4866255	3.4900403	3.4943327	3.4995854	3.5059085	3.5134495	3.5224076
.999600	3.5400838	3.5404374	3.5415036	3.5432995	3.5458544	3.5492117	3.5534316	3.5585953	3.5648107	3.5722223	3.5810252
.999700	3.6153000	3.6156462	3.6166902	3.6184487	3.6209503	3.6242375	3.6283690	3.6334241	3.6395082	3.6467621	3.6553759
.999800	3.7190165	3.7193530	3.7203679	3.7220773	3.7245090	3.7277041	3.7317196	3.7366323	3.7425442	3.7495915	3.7579579
.999900	3.8905919	3.8909136	3.8918837	3.8935176	3.8958418	3.8988954	3.9027328	3.9074268	3.9130745	3.9198051	3.9277923
.999910	3.9160811	3.9164007	3.9173645	3.9189877	3.9212968	3.9243304	3.9281427	3.9328059	3.9384164	3.9451023	3.9530362
.999920	3.9444001	3.9447174	3.9456743	3.9472859	3.9495783	3.9525901	3.9563748	3.9610042	3.9665739	3.9732110	3.9810864
.999930	3.9762858	3.9766005	3.9775498	3.9791484	3.9814224	3.9844100	3.9881642	3.9927851	3.9982806	4.0048635	4.0126742
.999940	4.0128108	4.0131227	4.0140633	4.0156474	4.0179006	4.0208609	4.0245807	4.0291306	4.0346041	4.0411260	4.0488639
.999950	4.0556270	4.0559356	4.0568662	4.0584336	4.0606630	4.0635919	4.0672722	4.0717736	4.0771887	4.0836406	4.0912948
.999960	4.1074797	4.1077844	4.1087033	4.1102508	4.1124520	4.1153438	4.1189774	4.1234216	4.1287675	4.1351366	4.1426919
.999970	4.1734663	4.1737662	4.1746706	4.1761936	4.1783600	4.1812059	4.1847818	4.1891551	4.1944155	4.2006823	4.2081154
.999980	4.2648908	4.2651843	4.2660692	4.2675596	4.2696794	4.2724641	4.2759630	4.2802418	4.2853883	4.2915187	4.2987890
.999990	4.4171734	4.4174568	4.4183112	4.4197501	4.4217967	4.4244852	4.4278628	4.4319932	4.4369604	4.4428764	4.4498910
.999991	4.4399016	4.4401835	4.4410336	4.4424652	4.4445013	4.4471759	4.4505362	4.4546452	4.4595868	4.4654721	4.4724501
.999992	4.4651839	4.4654642	4.4663095	4.4677329	4.4697575	4.4724170	4.4757581	4.4798437	4.4847570	4.4906086	4.4975463
.999993	4.4936885	4.4939670	4.4948069	4.4962213	4.4982330	4.5008756	4.5041955	4.5082550	4.5131368	4.5189507	4.5258436
.999994	4.52663893	4.5266658	4.5274997	4.5289038	4.5309010	4.5335244	4.5368202	4.5408502	4.5456964	4.5514678	4.5583100
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.999999	4.8916385	4.8918943	4.8926659	4.8939951	4.8958129	4.8982400	4.9012887	4.9050161	4.9094975	4.9148328	4.9211558

$$K = K(P, c) \text{ where probability } P = P(K, c), \quad 0 \leq c = v/u \leq 1, \quad R = K * u$$

P\c	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	1.00
.990000	2.6325668	2.6473557	2.6653323	2.6874982	2.7150540	2.7491616	2.7906913	2.8400956	2.8974348	2.9624855	3.0348543
.990500	2.6498517	2.6645253	2.6823534	2.7043342	2.7316804	2.7655864	2.8069672	2.8563174	2.9137272	2.9789881	3.0517089
.991000	2.6679741	2.6825290	2.7002044	2.7219938	2.7491216	2.7828156	2.8240375	2.8733272	2.9308073	2.9962859	3.0693748
.991500	2.6870259	2.7014582	2.7189760	2.7405672	2.7674673	2.8009377	2.8419896	2.8912115	2.9487615	3.0143661	3.0879408
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.992500	2.7283691	2.7425435	2.7597297	2.7809014	2.8073136	2.8402974	2.8809706	2.9300308	2.9877180	3.0539028	3.1282111
.993000	2.7509431	2.7649811	2.7819918	2.8029406	2.8290903	2.8618080	2.9022691	2.9512327	3.0089866	3.0754278	3.1501889
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.996500	2.9698692	2.9827236	2.9982203	3.0172191	3.0409869	3.0711444	3.1093939	3.1571445	3.2152497	3.2839606	3.3630321
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.999900	3.9277923	3.9372751	3.9485918	3.9622461	3.9790434	4.0003684	4.0286180	4.0675286	4.1218118	4.1958143	4.2919321
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.999970	4.2081154	4.2169338	4.2274457	4.2401041	4.2556195	4.2752093	4.3010935	4.3371637	4.3891577	4.4633288	4.5638390
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.999993	4.5258436	4.5340160	4.5437487	4.5554508	4.5697532	4.5877184	4.6113240	4.6443819	4.6934660	4.7671494	4.8722891
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DR DIPAK K DEY	1	T30 DR ARMIDO DIDONATO	2
DEPT OF STATISTICS		T31 DR JEFFREY BLANTON	1
UNIVERSITY OF CONNECTICUT		T32 DR ROBERT MCDEVITT	1
196 AUDITORIUM ROAD		T41 DR MICHAEL RUDZINSKY	1
STORRS CT 06269		T51 WILLIAM ORMSBY	1
		T54 DAVID CLAWSON	1
		T505 STEVEN ANDERSON	1

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